

## Antennas • Combining Systems Power Monitoring • Filters 25 MHz - 2700 MHz

### LIST PRICES • November 2005

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#### **FORMER WACOM CUSTOMERS:**

*Contact us for expansion or repair of your existing systems*

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**OR CALL TOLL FREE: 1-800-331-3396**



**660 Giguere Court  
San Jose, CA 95133  
408-929-4400**

CUSTOMER P.O. NUMBER	TELEWAVE CUST. NO.	SHIP DATE:
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SHIPPING TERMS:	<input type="checkbox"/> BEST AIR	<input type="checkbox"/> OTHER (SEE BELOW)	<input type="checkbox"/> FOB SHIP POINT COLLECT	<input type="checkbox"/> OTHER (SEE BELOW)
	<input type="checkbox"/> BEST SURFACE		<input type="checkbox"/> FOB SHIP POINT PREPAY AND ADD	

BILL TO:	SHIP TO:

CONTACT:	CONTACT PHONE:
EMAIL ADDRESS:	FAX NUMBER:

QUANTITY	PART NUMBER	DESCRIPTION	UNIT PRICE	AMOUNT

<b>IMPORTANT:</b> PLEASE COMPLETE THE OTHER SIDE OF THIS SHEET.	<b>MINIMUM ORDER: \$50.00</b>	TOTAL \$ _____
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SPECIAL INSTRUCTIONS:	SHIPPING INFORMATION:

PAYMENT TERMS:	<input type="checkbox"/> C.O.D	<input type="checkbox"/> PAID IN FULL WITH ORDER	<input type="checkbox"/> SPECIAL BILLING (SEE ABOVE)
	<input type="checkbox"/> VISA	<input type="checkbox"/> MASTERCARD	<input type="checkbox"/> NET 10 DAYS FROM INV. DATE

SIGNATURE	DATE
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## ORDER INFORMATION CHECKLIST

PLEASE LIST  
SYSTEM FREQUENCIES

<b>DATE</b> /    /
<b>Company Name</b>
<b>Contact Name</b>

## TRANSMITTER COMBINERS

Power level	watts	Frequency spacing	KHz / MHz
-------------	-------	-------------------	-----------

Number of TX antennas on site

Antenna types: Fiberglass      Yagi      Dipole      Gain

Physical separation of TX antennas from RX (tip to base):

Vertical	Ft.	Horizontal	Ft.
----------	-----	------------	-----

Rack width for equipment: 19" ☐ 24" ☐ Other ☐

Duplexed system? ☒ Y ☐ N      Power monitoring required? ☐ Y ☒ N

Expansion planned? ☐ Y ☐ N

IF YES: Number of new channels	Minimum freq. spacing	KHz / MHz
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## RECEIVER PRESELECTORS / MULTICOUPLERS

Frequency range \_\_\_\_\_ MHz    Spacing \_\_\_\_\_ KHz / MHz

Number of RX antennas

Antenna types: Fiberglass \_\_\_\_\_ Yagi \_\_\_\_\_ Dipole \_\_\_\_\_ Gain \_\_\_\_\_

Power supply: 110 VAC ☐ 220 VAC ☐ 12 VDC ☐ 24 VDC ☐ 48 VDC ☐

## ISOLATORS

Maximum input power	Watts	Tunable range from center freq. +/-	MHz
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## CAVITIES

Maximum input power	Watts	Tunable range from center freq. +/-	MHz
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## I. M. SUPPRESSION PANELS

Maximum input power	Watts	Tunable range from center freq. +/-	MHz
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## DUPLIXERS

Maximum input power \_\_\_\_\_ Watts      Tunable range from center freq. +/- \_\_\_\_\_ MHz

Rejection required	dB	Min. spacing between TX/RX frequencies	KHz / MHz
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TX bandwidth                      KHz / MHz                      RX bandwidth                      KHz / MHz

**ANTENNAS:** List frequencies in MHz and required gain in dBd:

FREQ                      GAIN                      FREQ                      GAIN                      FREQ                      GAIN

FREQ                      GAIN                      FREQ                      GAIN                      FREQ                      GAIN

**Will this system be operated in combined mode?** ☒ Y ☐ N

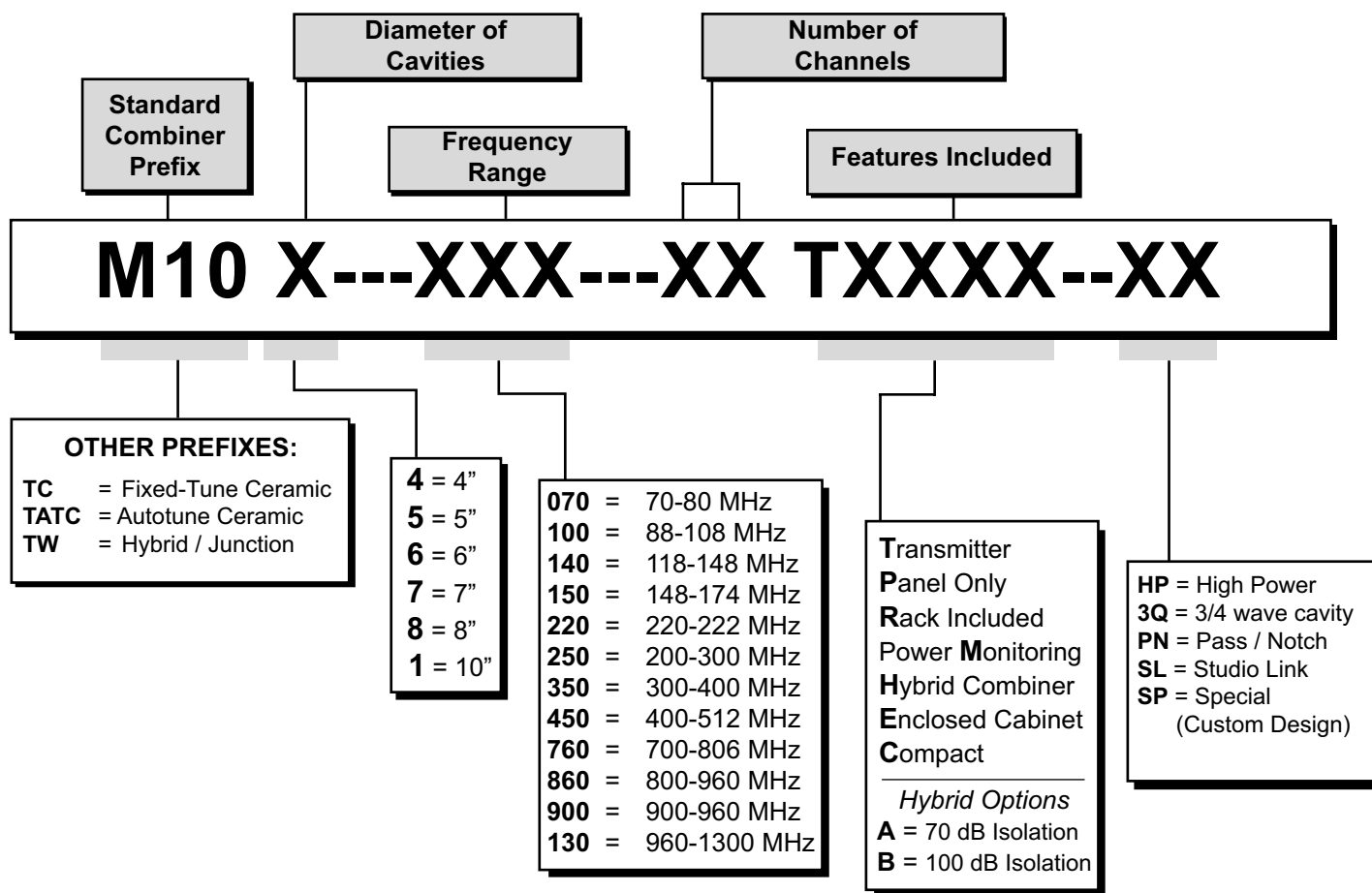
## SPECIAL REQUIREMENTS

Use a separate sheet to describe/sketch any terrain problems such as mountains, valleys, foliage, or large reflective objects in the system coverage area, as well as tower/site configuration and additional specifications.

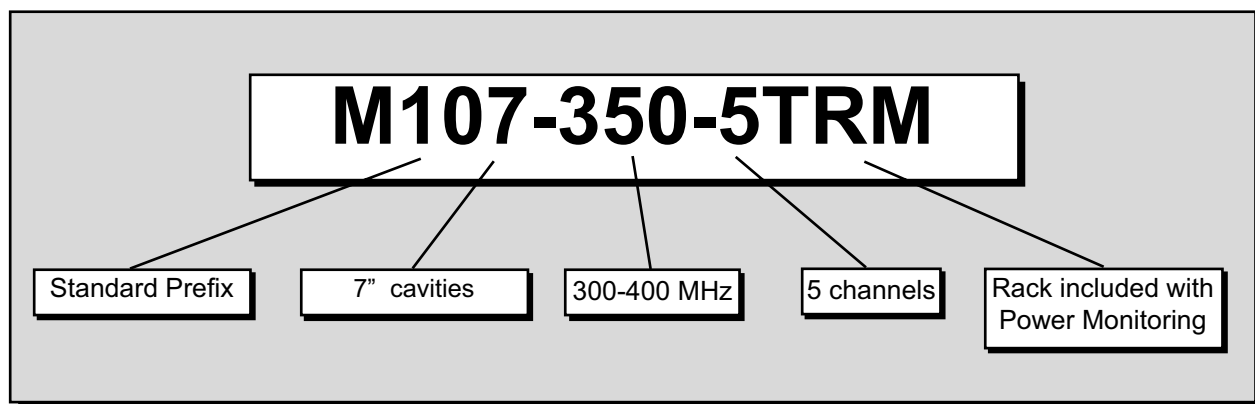
[illegible]

**Important:** Please list any other TX frequencies in use at this site on a separate sheet if necessary.

# COMBINER MODEL NUMBER NOMENCLATURE



## EXAMPLE:



## NOTES:

Standard Combiners ship in a 19" Steel Rack, or as panels for 19" rack mounting. Self contained combiners with 10" cavities are available in 24" welded steel racks. Consult factory for special applications.

# SECTION 1

## M104-150 SERIES

### COMPACT EXPANDABLE 150 MHz LOW-LOSS COMBINERS 19" RACK MOUNT PANELS - 4" CAVITIES

Available with up to 4 Channels per panel in only 8.75" of rack space. 4" High "Q" Cavities.  
Expandable with M104-150-1T Expansion Kits.

MODEL	DESCRIPTION	LIST PRICE
M104-150-1TPC	1 channel low loss 150 watt 150 MHz compact transmitter combiner panel	\$2,103.00
M104-150-2TPC	2 channel low loss 150 watt 150 MHz compact transmitter combiner panel	\$3,564.00
M104-150-3TPC	3 channel low loss 150 watt 150 MHz compact transmitter combiner panel	\$5,025.00
M104-150-4TPC	4 channel low loss 150 watt 150 MHz compact transmitter combiner panel	\$6,486.00
M104-150-5TPC	5 channel low loss 150 watt 150 MHz compact transmitter combiner - 2 panels	\$8,496.00
M104-150-6TPC	6 channel low loss 150 watt 150 MHz compact transmitter combiner - 2 panels	\$9,957.00
M104-150-7TPC	7 channel low loss 150 watt 150 MHz compact transmitter combiner - 2 panels	\$11,418.00
M104-150-8TPC	8 channel low loss 150 watt 150 MHz compact transmitter combiner - 2 panels	\$12,879.00

### EXPANSION KIT

MODEL	DESCRIPTION	LIST PRICE
M104-150-1T	1 channel expansion kit, 150 MHz. Must specify frequency and position. Includes cavity, isolator, hardware and cables, as well as factory simulation and tuning to ensure system antenna match.	\$1,670.00

# SECTION 1

## M108-150 SERIES

### EXPANDABLE 150 MHz LOW-LOSS COMBINERS

#### 19" RACK - 8" CAVITIES

Available with up to 8 Channels per rack. 8" High "Q" Cavities for close spacing. Includes 19" Rack, Power Monitoring, Wattmeter Panel, and Remote Keying. Cavities are mounted vertically using rails, or horizontally on a 19" panel.

Expandable with M108-150-1T Expansion Kits.

MODEL	DESCRIPTION	LIST PRICE
M108-150-1TRM	1 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$4,385.00
M108-150-2TRM	2 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$5,927.00
M108-150-3TRM	3 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$7,414.00
M108-150-4TRM	4 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$8,901.00
M108-150-5TRM	5 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$10,776.00
M108-150-6TRM	6 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$12,263.00
M108-150-7TRM	7 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$13,750.00
M108-150-8TRM	8 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$15,237.00

### EXPANSION KIT

MODEL	DESCRIPTION	LIST PRICE
M108-150-1T	1 channel expansion kit, 150 MHz. Must specify frequency and position. Includes cavity, isolator, power monitor, hardware and cables, as well as factory simulation and tuning to ensure system antenna match.	\$2,175.00

### OPTIONS

MODEL	DESCRIPTION	LIST PRICE
DPM	Delete power monitoring, wattmeter panel and remote keying on any combiner	(\$325.00)

# SECTION 1

## M101-150 SERIES

### EXPANDABLE 150 MHz LOW-LOSS COMBINERS

#### 19" RACK - 10" CAVITIES

Available with up to 10 Channels per rack. 10" High "Q" Cavities for close spacing. Includes 19" Rack, Power Monitoring, Wattmeter Panel, and Remote Keying. Expandable with M101-150-1T-19 Expansion Kits.

MODEL	DESCRIPTION	LIST PRICE
M101-150-1TRM-19	1 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$4,582.00
M101-150-2TRM-19	2 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$6,061.00
M101-150-3TRM-19	3 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$7,541.00
M101-150-4TRM-19	4 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$9,020.00
M101-150-5TRM-19	5 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$10,890.00
M101-150-6TRM-19	6 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$12,370.00
M101-150-7TRM-19	7 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$13,849.00
M101-150-8TRM-19	8 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$15,329.00
M101-150-9TRM-19	9 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$16,808.00
M101-150-10TRM-19	10 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$18,288.00

### EXPANSION KIT

MODEL	DESCRIPTION	LIST PRICE
M101-150-1T-19	1 channel expansion kit, 150 MHz. Must specify frequency and position. Includes cavity, isolator, power monitor, hardware and cables, as well as factory simulation and tuning to ensure system antenna match.	\$2,308.00

### OPTIONS

MODEL	DESCRIPTION	LIST PRICE
TWL-100P	Panel mount 100 Watt Load for Isolator 2nd Stage (per channel)	\$407.00
TBR84-19B	Steel Rack for System Expansion 84" H x 19" W (77" of usable Rack Space)	\$513.00
DPM	Delete power monitoring, wattmeter panel and remote keying on any combiner	(\$325.00)

# SECTION 1

## M101-150 SERIES

### EXPANDABLE 150 MHz LOW-LOSS COMBINERS

#### 24" RACK - 10" CAVITIES

Complete Self-Contained Combining System. Available in 8 or 12 Channel Racks. Expandable to 12 Channels with M101-150-1T Expansion Kits. Includes 24" Welded Rack, Power Monitoring, Wattmeter Panel, and Remote Keying.

MODEL	DESCRIPTION	LIST PRICE
M101-150-1TRM	1 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$4,193.00
M101-150-2TRM	2 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$6,229.00
M101-150-3TRM	3 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$8,265.00
M101-150-4TRM	4 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$10,302.00
M101-150-5TRM	5 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$12,338.00
M101-150-6TRM	6 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$14,374.00
M101-150-7TRM	7 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$16,410.00
M101-150-8TRM	8 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$18,446.00
M101-150-9TRM	9 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$20,482.00
M101-150-10TRM	10 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$22,518.00
M101-150-11TRM	11 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$24,554.00
M101-150-12TRM	12 channel low loss 150 watt 150 MHz rack mounted transmitter combiner	\$26,590.00

### EXPANSION KIT

MODEL	DESCRIPTION	LIST PRICE
M101-150-1T	1 channel expansion kit, 150 MHz. Must specify frequency and position. Includes cavity, isolator, power monitor, hardware and cables, as well as factory simulation and tuning to ensure system antenna match.	\$2,308.00

### OPTIONS

MODEL	DESCRIPTION	LIST PRICE
DPM	Delete power monitoring, wattmeter panel and remote keying on any combiner	(\$325.00)



# SECTION 1

## M108-220 / M107-350 SERIES

### 5 CHANNEL 220 MHz LOW-LOSS COMBINER SYSTEM 19" RACK - 8" CAVITIES

Complete combining system with Duplexer, Preselector and Receiver Multicoupler. Includes TBR72-19B Rack, Power Monitoring, Wattmeter Panel, and Remote Keying.

MODEL	DESCRIPTION	LIST PRICE
M108-220-5TRDS	5 channel low loss 125 watt 220 MHz rack mount combiner system	\$14,713.00

### EXPANDABLE 350 MHz LOW-LOSS COMBINERS 19" RACK - 7" CAVITIES

Includes TBR72-19B or TBR84-19B Rack, Power Monitoring, Wattmeter Panel, And Remote Keying.  
Expandable to 14 Channels with M107-350-1T Expansion Kits.

MODEL	DESCRIPTION	LIST PRICE
M107-350-1TRM	1 channel low loss 150 watt 350 MHz rack mounted transmitter combiner	\$4,070.00
M107-350-2TRM	2 channel low loss 150 watt 350 MHz rack mounted transmitter combiner	\$5,979.00
M107-350-3TRM	3 channel low loss 150 watt 350 MHz rack mounted transmitter combiner	\$7,887.00
M107-350-4TRM	4 channel low loss 150 watt 350 MHz rack mounted transmitter combiner	\$9,796.00
M107-350-5TRM	5 channel low loss 150 watt 350 MHz rack mounted transmitter combiner	\$11,704.00
M107-350-6TRM	6 channel low loss 150 watt 350 MHz rack mounted transmitter combiner	\$13,613.00
M107-350-7TRM	7 channel low loss 150 watt 350 MHz rack mounted transmitter combiner	\$15,521.00
M107-350-8TRM	8 channel low loss 150 watt 350 MHz rack mounted transmitter combiner	\$17,430.00
M107-350-9TRM	9 channel low loss 150 watt 350 MHz rack mounted transmitter combiner	\$19,338.00
M107-350-10TRM	10 channel low loss 150 watt 350 MHz rack mounted transmitter combiner	\$21,247.00
M107-350-11TRM	11 channel low loss 150 watt 350 MHz rack mounted transmitter combiner	\$23,155.00
M107-350-12TRM	12 channel low loss 150 watt 350 MHz rack mounted transmitter combiner	\$25,064.00
M107-350-13TRM	13 channel low loss 150 watt 350 MHz rack mounted transmitter combiner	\$26,972.00
M107-350-14TRM	14 channel low loss 150 watt 350 MHz rack mounted transmitter combiner	\$28,881.00
M107-350-1T	1 channel expansion kit, 350 MHz. Must specify frequency and position. Includes cavity, isolator, power monitor, hardware and cables, as well as factory simulation and tuning to ensure system antenna match.	\$2,175.00

## OPTIONS

MODEL	DESCRIPTION	LIST PRICE
DPM	Delete power monitoring, wattmeter panel and remote keying on any combiner	(\$325.00)

# SECTION 1

## M106-450 SERIES

### COMPACT EXPANDABLE 450 MHz LOW-LOSS COMBINERS 19" RACK MOUNT PANELS - 6" CAVITIES

Available with up to 4 Channels per panel in only 12.25" of rack space. 6" High "Q" Cavities.  
Expandable with M106-150-1T Expansion Kits.

MODEL	DESCRIPTION	LIST PRICE
M106-450-1TPC	1 channel low loss 150 watt 450 MHz transmitter combiner panel	\$2,386.00
M106-450-2TPC	2 channel low loss 150 watt 450 MHz transmitter combiner panel	\$4,114.00
M106-450-3TPC	3 channel low loss 150 watt 450 MHz transmitter combiner panel	\$5,842.00
M106-450-4TPC	4 channel low loss 150 watt 450 MHz transmitter combiner panel	\$7,570.00
M106-450-5TPC	5 channel low loss 150 watt 450 MHz transmitter combiner - 2 panels	\$9,298.00
M106-450-6TPC	6 channel low loss 150 watt 450 MHz transmitter combiner - 2 panels	\$11,026.00
M106-450-7TPC	7 channel low loss 150 watt 450 MHz transmitter combiner - 2 panels	\$12,755.00
M106-450-8TPC	8 channel low loss 150 watt 450 MHz transmitter combiner - 2 panels	\$14,483.00
M106-450-9TPC	9 channel low loss 150 watt 450 MHz transmitter combiner - 3 panels	\$16,211.00
M106-450-10TPC	10 channel low loss 150 watt 450 MHz transmitter combiner - 3 panels	\$17,939.00
M106-450-11TPC	11 channel low loss 150 watt 450 MHz transmitter combiner - 3 panels	\$19,667.00
M106-450-12TPC	12 channel low loss 150 watt 450 MHz transmitter combiner - 3 panels	\$21,395.00

### EXPANSION KIT

MODEL	DESCRIPTION	LIST PRICE
M106-450-1T	1 channel expansion kit, 450 MHz. Must specify frequency and position. Includes cavity, isolator, hardware and cables, as well as factory simulation and tuning to ensure system antenna match.	\$2,175.00

# SECTION 1

## M107-450 SERIES

### EXPANDABLE 450 MHz LOW-LOSS COMBINERS

#### 19" RACK - 7" CAVITIES

Available with up to 10 Channels per rack. Expandable with M107-450-1T Expansion Kits. Includes 19" Rack, Power Monitoring, Wattmeter Panel, and Remote Keying.

MODEL	DESCRIPTION	LIST PRICE
M107-450-1TRM	1 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$4,070.00
M107-450-2TRM	2 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$5,979.00
M107-450-3TRM	3 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$7,887.00
M107-450-4TRM	4 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$9,796.00
M107-450-5TRM	5 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$11,704.00
M107-450-6TRM	6 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$13,613.00
M107-450-7TRM	7 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$15,521.00
M107-450-8TRM	8 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$17,430.00
M107-450-9TRM	9 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$19,338.00
M107-450-10TRM	10 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$21,247.00
M107-450-1T	1 channel expansion kit, 450 MHz. Must specify frequency and position. Includes cavity, isolator, power monitor, hardware and cables, as well as factory simulation and tuning to ensure system antenna match.	\$2,175.00

### OPTIONS

MODEL	DESCRIPTION	LIST PRICE
TWL-100P	Panel mount 100 Watt Load for Isolator 2nd Stage (per channel)	\$407.00
TBR84-19B	Steel Rack for System Expansion 84" H x 19" W (77" of usable Rack Space)	\$513.00
DPM	To delete power monitoring, wattmeter panel and remote keying on any combiner	(\$325.00)

### EXPANDABLE 450 MHz LOW-LOSS COMBINER PANELS

#### 19" RACK MOUNT PANELS - 7" CAVITIES

Available with 4 or 6 Channels per panel. Expandable with M107-450-1T Expansion Kits.

MODEL	DESCRIPTION	LIST PRICE
M107-450-1TP	1 channel low loss 150 watt 450 MHz transmitter combiner panel	\$2,386.00
M107-450-2TP	2 channel low loss 150 watt 450 MHz transmitter combiner panel	\$4,114.00
M107-450-3TP	3 channel low loss 150 watt 450 MHz transmitter combiner panel	\$5,842.00
M107-450-4TP	4 channel low loss 150 watt 450 MHz transmitter combiner panel	\$7,570.00
M107-450-5TP	5 channel low loss 150 watt 450 MHz transmitter combiner panel	\$9,298.00
M107-450-6TP	6 channel low loss 150 watt 450 MHz transmitter combiner panel	\$11,026.00
M107-450-7TP	7 channel low loss 150 watt 450 MHz transmitter combiner - 2 panels	\$12,755.00
M107-450-8TP	8 channel low loss 150 watt 450 MHz transmitter combiner - 2 panels	\$14,483.00
M107-450-9TP	9 channel low loss 150 watt 450 MHz transmitter combiner - 2 panels	\$16,211.00
M107-450-10TP	10 channel low loss 150 watt 450 MHz transmitter combiner - 2 panels	\$17,939.00
M107-450-1T	1 channel expansion kit, 450 MHz. Must specify frequency and position	\$2,175.00

# SECTION 1

## M108-450 SERIES

### EXPANDABLE 450 MHz LOW-LOSS COMBINERS

#### 19" RACK - 8" CAVITIES

Available with up to 10 Channels per rack. Includes 19" Rack, Power Monitoring, Wattmeter Panel, and Remote Keying. Expandable with M108-450-1T Expansion Kits.

MODEL	DESCRIPTION	LIST PRICE
M108-450-1TRM	1 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$4,908.00
M108-450-2TRM	2 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$6,421.00
M108-450-3TRM	3 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$7,933.00
M108-450-4TRM	4 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$9,446.00
M108-450-5TRM	5 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$10,958.00
M108-450-6TRM	6 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$12,471.00
M108-450-7TRM	7 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$13,983.00
M108-450-8TRM	8 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$15,496.00
M108-450-9TRM	9 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$17,008.00
M108-450-10TRM	10 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$18,521.00
M108-450-1T	1 channel expansion kit, 450 MHz. Specify frequency and position. Includes cavity, isolator, power monitor, mounting hardware and cables, as well as factory simulation and tuning to ensure system antenna match.	\$2,175.00
DPM	To delete power monitoring, wattmeter panel and remote keying on any combiner	(\$325.00)

### EXPANDABLE 450 MHz LOW-LOSS COMBINERS

#### 19" RACK - 8" 3/4 WAVE CAVITIES

Available with up to 8 Channels per rack. 3/4 Wave Cavities for close spacing. Includes 19" Rack, Power Monitoring, Wattmeter Panel, and Remote Keying. Cavities are mounted vertically using rails, or horizontally on a 19" panel, Expandable with M108-150-1T-3Q Expansion Kits.

MODEL	DESCRIPTION	LIST PRICE
M108450-1TRM3Q	1 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$4,385.00
M108450-2TRM3Q	2 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$5,927.00
M108450-3TRM3Q	3 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$7,414.00
M108450-4TRM3Q	4 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$8,901.00
M108450-5TRM3Q	5 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$10,776.00
M108450-6TRM3Q	6 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$12,263.00
M108450-7TRM3Q	7 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$13,750.00
M108450-8TRM3Q	8 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$15,237.00
M108-450-1T-3Q	1 channel expansion kit, 450 MHz. Specify frequency and position. Includes cavity, isolator, power monitor, mounting hardware and cables, as well as factory simulation and tuning to ensure system antenna match.	\$2,175.00

# SECTION 1

## M101-450 SERIES

### EXPANDABLE 450 MHz LOW-LOSS COMBINERS 19" RACK - 10" 1/4 WAVE CAVITIES

Available with up to 10 Channels per rack. Includes 19" Rack, Power Monitoring, Wattmeter Panel, and Remote Keying. Expandable with M101-450-1T-19 Expansion Kits.

MODEL	DESCRIPTION	LIST PRICE
M101450-1TRM19	1 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$4,449.00
M101450-2TRM19	2 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$5,884.00
M101450-3TRM19	3 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$7,321.00
M101450-4TRM19	4 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$8,757.00
M101450-5TRM19	5 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$10,573.00
M101450-6TRM19	6 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$12,010.00
M101450-7TRM19	7 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$13,446.00
M101450-8TRM19	8 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$14,883.00
M101450-9TRM19	9 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$16,318.00
M101450-10TRM19	10 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$17,775.00
M101-450-1T	1 channel expansion kit, 450 MHz. Specify frequency and position. Includes cavity, isolator, power monitor, mounting hardware and cables, as well as factory simulation and tuning to ensure system antenna match	\$2,175.00
DPM	Delete power monitoring, wattmeter panel and remote keying on any combiner	(\$325.00)

### EXPANDABLE 450 MHz CLOSE SPACING LOW-LOSS COMBINERS 19" RACK - 10" 3/4 WAVE CAVITIES

Available with up to 10 Channels per rack. 3/4 Wave Cavities for close spacing. Includes 19" Rack, Power Monitoring, Wattmeter Panel, and Remote Keying. Expandable with M101-450-1T-19 Expansion Kits.

MODEL	DESCRIPTION	LIST PRICE
M101450-1TRM193Q	1 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$4,582.00
M101450-2TRM193Q	2 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$6,061.00
M101450-3TRM193Q	3 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$7,541.00
M101450-4TRM193Q	4 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$9,020.00
M101450-5TRM193Q	5 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$10,890.00
M101450-6TRM193Q	6 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$12,370.00
M101450-7TRM193Q	7 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$13,849.00
M101450-8TRM193Q	8 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$15,329.00
M101450-9TRM193Q	9 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$16,808.00
M101450-10TRM193Q	10 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$18,288.00
M101450-1T3Q	1 channel expansion kit, 450 MHz, 3/4 wave. Specify frequency and position.	\$2,308.00

# SECTION 1

## M101-450 SERIES

### EXPANDABLE 450 MHz LOW-LOSS COMBINERS

#### 24" RACK - 10" CAVITIES

Available in 8 or 12 Channel Racks. Expandable to 12 Channels with M101-450-1T Expansion Kits. Includes 24" Welded Rack, Power Monitoring, Wattmeter Panel, and Remote Keying.

MODEL	DESCRIPTION	LIST PRICE
M101-450-1TRM	1 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$4,070.00
M101-450-2TRM	2 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$5,979.00
M101-450-3TRM	3 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$7,887.00
M101-450-4TRM	4 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$9,796.00
M101-450-5TRM	5 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$11,704.00
M101-450-6TRM	6 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$13,613.00
M101-450-7TRM	7 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$15,521.00
M101-450-8TRM	8 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$17,430.00
M101-450-9TRM	9 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$19,338.00
M101-450-10TRM	10 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$21,247.00
M101-450-11TRM	11 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$23,155.00
M101-450-12TRM	12 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$25,064.00
M101-450-1T	1 channel expansion kit, 450 MHz. Specify frequency and position. Includes cavity, isolator, power monitor, mounting hardware and cables, as well as factory simulation and tuning to ensure system antenna match	\$2,175.00
DPM	To delete power monitoring, wattmeter panel and remote keying on any combiner	(\$325.00)

### EXPANDABLE 450 MHz CLOSE SPACING LOW-LOSS COMBINERS

#### 24" RACK - 10" 3/4 WAVE CAVITIES

8 or 12 Channel Racks. Includes 24" Welded Rack, Power Monitoring, Wattmeter Panel, and Remote Keying.

MODEL	DESCRIPTION	LIST PRICE
M101450-1TRM3Q	1 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$4,193.00
M101450-2TRM3Q	2 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$6,229.00
M101450-3TRM3Q	3 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$8,265.00
M101450-4TRM3Q	4 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$10,302.00
M101450-5TRM3Q	5 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$12,338.00
M101450-6TRM3Q	6 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$14,374.00
M101450-7TRM3Q	7 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$16,410.00
M101450-8TRM3Q	8 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$18,446.00
M101450-9TRM3Q	9 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$20,482.00
M101450-10TRM3Q	10 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$22,518.00
M101450-11TRM3Q	11 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$24,554.00
M101450-12TRM3Q	12 channel low loss 150 watt 450 MHz rack mounted transmitter combiner	\$26,590.00
M101450-1T3Q	1 channel expansion kit, 450 MHz, 3/4 wave. Specify frequency and position.	\$2,308.00

# SECTION 1

## M107-760 SERIES

### EXPANDABLE 760 MHz LOW-LOSS COMBINERS

#### 19" RACK - 7" CAVITIES

Includes TBR72-19B or TBR84-19B Rack, Power Monitoring, Wattmeter Panel, And Remote Keying.  
Expandable to 14 Channels with M107-760-1T Expansion Kits.

MODEL	DESCRIPTION	LIST PRICE
M107-760-1TRM	1 channel low loss 150 watt 760 MHz rack mounted transmitter combiner	\$4,070.00
M107-760-2TRM	2 channel low loss 150 watt 760 MHz rack mounted transmitter combiner	\$5,979.00
M107-760-3TRM	3 channel low loss 150 watt 760 MHz rack mounted transmitter combiner	\$7,887.00
M107-760-4TRM	4 channel low loss 150 watt 760 MHz rack mounted transmitter combiner	\$9,796.00
M107-760-5TRM	5 channel low loss 150 watt 760 MHz rack mounted transmitter combiner	\$11,704.00
M107-760-6TRM	6 channel low loss 150 watt 760 MHz rack mounted transmitter combiner	\$13,613.00
M107-760-7TRM	7 channel low loss 150 watt 760 MHz rack mounted transmitter combiner	\$15,521.00
M107-760-8TRM	8 channel low loss 150 watt 760 MHz rack mounted transmitter combiner	\$17,430.00
M107-760-9TRM	9 channel low loss 150 watt 760 MHz rack mounted transmitter combiner	\$19,338.00
M107-760-10TRM	10 channel low loss 150 watt 760 MHz rack mounted transmitter combiner	\$21,247.00
M107-760-11TRM	11 channel low loss 150 watt 760 MHz rack mounted transmitter combiner	\$23,155.00
M107-760-12TRM	12 channel low loss 150 watt 760 MHz rack mounted transmitter combiner	\$25,064.00
M107-760-13TRM	13 channel low loss 150 watt 760 MHz rack mounted transmitter combiner	\$26,972.00
M107-760-14TRM	14 channel low loss 150 watt 760 MHz rack mounted transmitter combiner	\$28,881.00

### EXPANSION KIT

MODEL	DESCRIPTION	LIST PRICE
M107-760-1T	1 channel expansion kit, 760 MHz. Must specify frequency and position Includes cavity, isolator, power monitor, hardware and cables, as well as factory simulation and tuning to ensure system antenna match	\$2,175.00

### OPTIONS

MODEL	DESCRIPTION	LIST PRICE
DPM	To delete power monitoring, wattmeter panel and remote keying on any combiner	(\$325.00)

# SECTION 1

## M106-860 SERIES

### COMPACT EXPANDABLE LOW COST SMR / TRUNKING COMBINERS 19" RACK MOUNT PANELS - 6" CAVITIES

M106 Series Combiner panels allow up to 5 channels to be installed on a 12.25" H x 19" W panel.

Each Channel includes Cavity, Dual Isolator, and Loads (60 watt load on second stage load port).

Power Monitoring and 19" Racks available. Expandable to 10 channels with M106-860-1T/5T Kits.

MODEL	DESCRIPTION	LIST PRICE
M106-860-1TP	1 channel low loss 125 watt 851-869 MHz transmitter combiner panel	\$2,212.00
M106-860-2TP	2 channel low loss 125 watt 851-869 MHz transmitter combiner panel	\$3,819.00
M106-860-3TP	3 channel low loss 125 watt 851-869 MHz transmitter combiner panel	\$5,426.00
M106-860-4TP	4 channel low loss 125 watt 851-869 MHz transmitter combiner panel	\$7,033.00
M106-860-5TP	5 channel low loss 125 watt 851-869 MHz transmitter combiner panel	\$8,641.00
M106-860-6TP	6 channel low loss 125 watt 851-869 MHz transmitter combiner - 2 panels	\$10,853.00
M106-860-7TP	7 channel low loss 125 watt 851-869 MHz transmitter combiner - 2 panels	\$12,460.00
M106-860-8TP	8 channel low loss 125 watt 851-869 MHz transmitter combiner - 2 panels	\$14,067.00
M106-860-9TP	9 channel low loss 125 watt 851-869 MHz transmitter combiner - 2 panels	\$15,674.00
M106-860-10TP	10 channel low loss 125 watt 851-869 MHz transmitter combiner - 2 panels	\$17,281.00

### EXPANSION KITS

MODEL	DESCRIPTION	LIST PRICE
M106-860-1T	1 channel expansion kit, 851-869 MHz. Specify frequency and channel number. No panel. Includes isolator, cavity, mounting hardware and cables, as well as factory simulation and tuning to ensure system antenna match.	\$1,607.00
M106-860-5T	5 channel expansion kit, 851-869 MHz. Expands 5 channel system to 10 ch. Includes tuning, panel, and cabling to connect existing panel as required.	\$8,639.00

### OPTIONS

MODEL	DESCRIPTION	LIST PRICE
TTPD-8644	300 Watt Duplexer with 5 MHz TX / RX passbands. 0.4 dB insertion loss.	\$1,503.00
TPCD-8626	300 Watt Duplexer with 15 MHz TX / RX passbands. 0.4 dB insertion loss.	\$1,503.00
TPCD-8626HP	500 Watt Duplexer with 15 MHz TX / RX passbands. 0.4 dB insertion loss.	\$2,153.00
TBR72-19B	Steel rack, 72" H x 19" W	\$485.00
TBR84-19B	Steel rack, 84" H x 19" W	\$513.00
PM10C2S1C	Compact 10 channel Wattmeter Panel - 1.75" H x 19" W	\$837.00
PM-2A-860	Power Sensor with cable and elbow connector (6) required for 5 channels - (11) required for 10 channels	\$182.00



# SECTION 1

## M107-860 SERIES

### EXPANDABLE 860 MHz LOW-LOSS COMBINERS

#### 19" RACK - 7" CAVITIES

Includes TBR72-19B Rack, Power Monitoring, Wattmeter Panel, And Remote Keying.  
Expandable to 10 Channels with M107-860-1T Expansion Kits.

MODEL	DESCRIPTION	LIST PRICE
M107-860-1TRM	1 channel low loss 150 watt 860 MHz rack mounted transmitter combiner	\$4,070.00
M107-860-2TRM	2 channel low loss 150 watt 860 MHz rack mounted transmitter combiner	\$5,979.00
M107-860-3TRM	3 channel low loss 150 watt 860 MHz rack mounted transmitter combiner	\$7,887.00
M107-860-4TRM	4 channel low loss 150 watt 860 MHz rack mounted transmitter combiner	\$9,796.00
M107-860-5TRM	5 channel low loss 150 watt 860 MHz rack mounted transmitter combiner	\$11,704.00
M107-860-6TRM	6 channel low loss 150 watt 860 MHz rack mounted transmitter combiner	\$13,613.00
M107-860-7TRM	7 channel low loss 150 watt 860 MHz rack mounted transmitter combiner	\$15,521.00
M107-860-8TRM	8 channel low loss 150 watt 860 MHz rack mounted transmitter combiner	\$17,430.00
M107-860-9TRM	9 channel low loss 150 watt 860 MHz rack mounted transmitter combiner	\$19,338.00
M107-860-10TRM	10 channel low loss 150 watt 860 MHz rack mounted transmitter combiner	\$21,247.00
M107-860-1T	1 channel expansion kit, 860 MHz. Must specify frequency and position	\$2,175.00

### COMPACT HIGH POWER TRUNKING / SMR LOW-LOSS COMBINERS

#### 19" RACK - 7" CAVITIES

Each Compact High Power Combiner Includes TBR72-19B Rack, Power Monitoring, Wattmeter Panel, -50 dB Tuning Sampler on 2nd Isolator Output Stage 100 watt load, and Remote Keying. 17.5" Panel.

MODEL	DESCRIPTION	LIST PRICE
M107860-1TRMHP	1 channel low loss 175 watt 851-960 MHz compact transmitter combiner	\$5,398.00
M107860-2TRMHP	2 channel low loss 175 watt 851-960 MHz compact transmitter combiner	\$7,638.00
M107860-3TRMHP	3 channel low loss 175 watt 851-960 MHz compact transmitter combiner	\$9,879.00
M107860-4TRMHP	4 channel low loss 175 watt 851-960 MHz compact transmitter combiner	\$12,120.00
M107860-5TRMHP	5 channel low loss 175 watt 851-960 MHz compact transmitter combiner	\$14,361.00
M107860-6TRMHP	6 channel low loss 175 watt 851-960 MHz compact transmitter combiner	\$16,601.00
M107860-7TRMHP	7 channel low loss 175 watt 851-960 MHz compact transmitter combiner	\$18,842.00
M107860-8TRMHP	8 channel low loss 175 watt 851-960 MHz compact transmitter combiner	\$21,083.00
M107860-9TRMHP	9 channel low loss 175 watt 851-960 MHz compact transmitter combiner	\$23,323.00
M107860-10TRMHP	10 channel low loss 175 watt 851-960 MHz compact transmitter combiner	\$25,564.00
M107860-1THP	1 channel expansion kit, 851-960 MHz. Specify frequency and position	\$2,391.00
M107860-5THP	5 channel expansion kit, 851-960 MHz. Expands 5 channel system to 10 ch.	\$10,497.00

### OPTIONS

MODEL	DESCRIPTION	LIST PRICE
TWCH-393T	High Power 7-16 DIN Tee Harness. Includes 7-16 DIN Tee Connector, and (2) RG-393 7-16 DIN cables to interconnect two 5 channel combiners	\$859.00
TWL-125CS	125 Watt Isolator 2nd stage load with temp. sensing TX cut-off (each channel)	\$281.00
DPM	To delete power monitoring, wattmeter panel and remote keying on any combiner	(\$325.00)

# SECTION 1

## M101-860 / M101-900 SERIES

### EXPANDABLE TRUNKING / SMR LOW-LOSS COMBINERS

#### 19" RACK - 8" CAVITIES

Available in 5 or 10 Channel Racks. Expandable to 10 Channels with M101-860-1T/5T Expansion Kits.  
8" Cavities for Close Spacing. Includes TBR72-19B Rack, Power Monitoring, Wattmeter Panel, Remote Keying.

MODEL	DESCRIPTION	LIST PRICE
M101-860-1TRM	1 channel low loss 150 watt 851-869 MHz rack mounted transmitter combiner	\$4,908.00
M101-860-2TRM	2 channel low loss 150 watt 851-869 MHz rack mounted transmitter combiner	\$6,944.00
M101-860-3TRM	3 channel low loss 150 watt 851-869 MHz rack mounted transmitter combiner	\$8,980.00
M101-860-4TRM	4 channel low loss 150 watt 851-869 MHz rack mounted transmitter combiner	\$11,017.00
M101-860-5TRM	5 channel low loss 150 watt 851-869 MHz rack mounted transmitter combiner	\$13,053.00
M101-860-6TRM	6 channel low loss 150 watt 851-869 MHz rack mounted transmitter combiner	\$15,089.00
M101-860-7TRM	7 channel low loss 150 watt 851-869 MHz rack mounted transmitter combiner	\$17,125.00
M101-860-8TRM	8 channel low loss 150 watt 851-869 MHz rack mounted transmitter combiner	\$19,161.00
M101-860-9TRM	9 channel low loss 150 watt 851-869 MHz rack mounted transmitter combiner	\$21,197.00
M101-860-10TRM	10 channel low loss 150 watt 851-869 MHz rack mounted transmitter combiner	\$23,233.00

### EXPANSION KITS

MODEL	DESCRIPTION	LIST PRICE
M101-860-1T	1 channel expansion kit, 851-869 MHz. Specify frequency and position. Includes cavity, isolator, power monitor, mounting hardware and cables, as well as factory simulation and tuning to ensure system antenna match	\$2,175.00
M101-860-5T	5 channel expansion kit, 851-869 MHz. Expands 5 channel system to 10 ch. Includes panel, and expansion harness to connect existing panel.	\$9,544.00

### OPTIONS

MODEL	DESCRIPTION	LIST PRICE
DPM	To delete power monitoring, wattmeter panel and remote keying on any combiner	(\$325.00)

### EXPANDABLE 900 MHz SMR / TRUNKING HYBRID COMBINERS

#### 19" RACK - HYBRID TRAYS

Includes TBR72-19B Rack, Power Monitoring, Wattmeter Panel and Remote Keying.

MODEL	DESCRIPTION	LIST PRICE
M101-900-2TRMH	2 channel 150 watt 900 MHz hybrid combiner, expandable to 10 channels	\$4,741.00
M101-900-4TRMH	4 channel 150 watt 900 MHz hybrid combiner, expandable to 10 channels	\$9,121.00
M101-900-10TRMH	10 channel 150 watt 900 MHz hybrid combiner	\$22,067.00
M101-900-2TH	2 channel expansion kit, 900 MHz. For 2 channel or 4 channel combiner Includes hybrid coupler, cables, and all mounting hardware	\$4,001.00
M101-900-4TH	4 channel expansion kit, 900 MHz. For 2 channel or 4 channel combiner Includes hybrid coupler, cables, and all mounting hardware	\$8,382.00

# SECTION 1

## CERAMIC SERIES

### CERAMIC ENHANCED TRUNKING / SMR LOW-LOSS COMBINERS

#### 19" RACK - 4" CAVITIES

Requires only 7.5" of Rack Space for 5 Channels. Expandable to 10 Channels with TC860-1T/5T Expansion Kits.  
Includes TBR72-19B Rack, Power Monitoring, Wattmeter Panel and Remote TX Keying.

MODEL	DESCRIPTION	LIST PRICE
TC860-1TRM	1 channel CELLCO Ceramic Enhanced 80 watt 851-869 MHz combiner	\$5,071.00
TC860-2TRM	2 channel CELLCO Ceramic Enhanced 80 watt 851-869 MHz combiner	\$7,268.00
TC860-3TRM	3 channel CELLCO Ceramic Enhanced 80 watt 851-869 MHz combiner	\$9,464.00
TC860-4TRM	4 channel CELLCO Ceramic Enhanced 80 watt 851-869 MHz combiner	\$11,661.00
TC860-5TRM	5 channel CELLCO Ceramic Enhanced 80 watt 851-869 MHz combiner	\$13,858.00
TC860-6TRM	6 channel CELLCO Ceramic Enhanced 80 watt 851-869 MHz combiner	\$16,055.00
TC860-7TRM	7 channel CELLCO Ceramic Enhanced 80 watt 851-869 MHz combiner	\$18,251.00
TC860-8TRM	8 channel CELLCO Ceramic Enhanced 80 watt 851-869 MHz combiner	\$20,448.00
TC860-9TRM	9 channel CELLCO Ceramic Enhanced 80 watt 851-869 MHz combiner	\$22,645.00
TC860-10TRM	10 channel CELLCO Ceramic Enhanced 80 watt 851-869 MHz combiner	\$24,841.00
TC860-1T	1 channel expansion kit, 851-869 MHz. Specify frequency and position	\$2,334.00
TC860-5T	5 channel expansion kit, 851-869 MHz. Expands 5 channel system to 10 ch.	\$10,349.00

### CERAMIC ENHANCED CELLULAR LOW-LOSS COMBINERS

#### 19" RACK - 4" CAVITIES

Requires only 8.75" of rack space for up to 8 channels. Each channel is rated at 80 watts, and includes one T8630D Isolator with Power Monitoring.

MODEL	DESCRIPTION	LIST PRICE
TC804-4	4 channel 80 watt 869-896 MHz Ceramic Enhanced Combiner with Isolators	\$7,035.00
TC804-8	8 channel 80 watt 869-896 MHz Ceramic Enhanced Combiner with Isolators	\$14,069.00
TC804-12	12 channel 80 watt 869-896 MHz Ceramic Enhanced Combiner with Isolators	\$21,104.00
TC804-16	16 channel 80 watt 869-896 MHz Ceramic Enhanced Combiner with Isolators	\$28,138.00
TC804-24	24 channel 80 watt 869-896 MHz Ceramic Enhanced Combiner with Isolators	\$42,207.00
TC804-36	36 channel 80 watt 869-896 MHz Ceramic Enhanced Combiner with Isolators	\$56,276.00
TC804-4X	Expands 4, 8, 12, 20 and 24 channel systems by an additional 4 channels	\$7,090.00
TC804-8X	Expands 8, 16 and 24 channel systems by an additional 8 channels	\$14,201.00

### CERAMIC ENHANCED GSM LOW-LOSS COMBINERS

#### 19" RACK - 4" CAVITIES

Requires only 8.75" of rack space for up to 4 channels. Two cavities per channel provide 200 KHz bandwidth.  
Each channel is rated at 80 watts, and includes one T8630D Isolator with Power Monitoring.

MODEL	DESCRIPTION	LIST PRICE
TC9042-4	4 channel 80 watt GSM Ceramic Enhanced Combiner 935-960 MHz	\$8,090.00
TC9042-8	8 channel 80 watt GSM Ceramic Enhanced Combiner 935-960 MHz	\$16,687.00
TC9042-12	12 channel 80 watt GSM Ceramic Enhanced Combiner 935-960 MHz	\$25,215.00
TC9042-16	16 channel 80 watt GSM Ceramic Enhanced Combiner 935-960 MHz	\$33,310.00
TC9042-4X	Expansion Kit. Adds 4 channels to existing system.	\$8,470.00
TC9042-8X	Expansion Kit. Adds 8 channels to existing system.	\$17,069.00

# SECTION 1

## AUTOTUNE SERIES

### AUTOTUNING CERAMIC ENHANCED LOW-LOSS COMBINERS

Each Channel includes T-8660 Isolator, Microprocessor-Based Controller, and Forward/Reverse Channel Power, Fault and Parameter Monitoring via RS-485/-232 Data Link.  
Each combiner assembly includes full RF Harness, +24 VDC Power Supply, and mounts on a 19" panel.

MODEL	DESCRIPTION	LIST PRICE
TATC-8645-1E	5 channel Ceramic Autotune Trunking combiner - 100 watts per channel 100 watt units mount on 10.5" H x 19" W panel	\$11,829.00
TATC-8645-2E	10 channel Ceramic Autotune Trunking combiner - 100 watts per channel	\$23,752.00
TATC-8645-3E	15 channel Ceramic Autotune Trunking combiner - 100 watts per channel	\$35,675.00
TATC-8645-4E	20 channel Ceramic Autotune Trunking combiner - 100 watts per channel	\$47,785.00
TATC-8645-1HP	5 channel Ceramic Autotune Trunking combiner - 150 watts per channel 150 watt units mount on 12.25" H x 19" W panel	\$12,759.00
TATC-8645-2HP	10 channel Ceramic Autotune Trunking combiner - 150 watts per channel	\$25,890.00
TATC-8646-3R	6 channel Ceramic Autotune Trunking combiner - 100 watts per channel 3R units mount on 7" H x 19" W panel	\$14,161.00
TATC-8648-3R	8 channel Ceramic Autotune Trunking combiner - 100 watts per channel	\$18,883.00
TATC-8648-1E	8 channel Ceramic Autotune Trunking combiner - 100 watts per channel Mounts on 12.25" H x 19" W panel	\$18,883.00

### EXPANSION KITS - Expands 5 channels to 10 channels.

MODEL	DESCRIPTION	LIST PRICE
TATC-8645-1X	5 channel Expansion Panel - 100 watts per channel	\$12,015.00
TATC-8645-1HPX	5 channel High Power Expansion Panel - 150 watts per channel	\$13,378.00

### OPTIONS

MODEL	DESCRIPTION	LIST PRICE
TATC-8645-OPTA	PMU2C1S Wattmeter. Displays channel and antenna forward / reverse power. Alarms for low power and high VSWR. RS-232 to RS-485 converter built in.	\$2,739.00
TATC-8645-OPTB	TW2-860-7-16 2-way combiner Tee with 7-16 DIN connector on antenna output.	\$205.00
TATC-8645-OPTC	External Modem and Computer Cable	\$265.00
TATC-8645-OPTD	Isolated RS-232 to RS-485 converter for computer monitoring and control. Used when PMU is not installed on front panel. Includes cables.	\$402.00
TATC-8645-OPTE	Accessory Cable - Connects RS-485 converter to RS-232 device	\$75.00
TATC-8645-OPTF	RG-393 critical-length N-Male cable set for combining two 5 channel panels.	\$122.00
TATC-8645-PTG	7-16 male connector for RG-393 coax cable	\$75.00
TATC-8645-OPTH	Tee connector - N-F / 7-16 DIN-F / N-F	\$240.00
TATC-8645-OPTJ	TBR72-19B - Steel rack, 72" H x 19" W	\$485.00

# SECTION 1

## PASS / NOTCH SERIES

### 66-88 MHz

MODEL	DESCRIPTION	LIST PRICE
M101-70-1T-1PN	Single station combiner with one bandpass and one notch, 8" cavities	\$1,184.00
M101-70-1T-2PN	Single station combiner with two bandpass and one notch, 8" cavities	\$1,610.00
M101-70-1T-3PN	Single station combiner with three bandpass and one notch, 8" cavities	\$2,008.00

### 136-174 MHz

MODEL	DESCRIPTION	LIST PRICE
M101-150-1T-1PN	Single station combiner with one bandpass and one notch, 8" cavities	\$924.00
M101-150-1T-2PN	Single station combiner with two bandpass and one notch, 8" cavities	\$1,376.00
M101-150-1T-3PN	Single station combiner with three bandpass and one notch, 8" cavities	\$1,716.00

### 400-512 MHz

MODEL	DESCRIPTION	LIST PRICE
M101-450-1T-1PN	Single station combiner with one bandpass and one notch, 8" cavities	\$796.00
M101-450-1T-2PN	Single station combiner with two bandpass and one notch, 8" cavities	\$1,185.00
M101-450-1T-3PN	Single station combiner with three bandpass and one notch, 8" cavities	\$1,685.00

## OPTIONS

MODEL	DESCRIPTION	LIST PRICE
T-1030CM	Single isolator 66-108 MHz, cavity mount. Includes 35 watt removable load.	\$608.00
T-1060CM	Dual isolator 66-108 MHz, cavity mount. Includes two 35 watt removable loads.	\$1,098.00
T-1530CM	Single isolator 118-174 MHz, cavity mount. Includes 35 watt removable load.	\$608.00
T-1560CM	Dual isolator 118-174 MHz, cavity mount. Includes two 35 watt removable loads.	\$1,098.00
T-4530CM	Single isolator 406-512 MHz, cavity mount. Includes 35 watt removable load.	\$608.00
T-4560CM	Dual isolator 406-512 MHz, cavity mount. Includes two 35 watt removable loads.	\$1,098.00
CBL214T	RG-214T Mil. Spec. combiner interconnection cable, per foot	\$4.00
UG-21	Adapter - N Female to UHF Male	\$8.00

# SECTION 1

## HYBRID SERIES

### HYBRID TRANSMITTER COMBINERS AND COUPLERS

Combiners and Couplers can be mounted on standard EIA 19" Panel, and Include Isolators and Loads.

TW-860 Compact Combiners require only 3.5" of rack space for two **or** four channels at 125 watts.

Standard Two Channel models are 5.25" high. Four Channel models are 10.5" high. 400 watt models available.

MODEL	DESCRIPTION	ISOLATION	LIST PRICE
TW150-2HRA1	2 Channel 150 Watt 118-174 MHz Hybrid Transmitter Combiner	70 dB	\$2,665.00
TW150-2HRB1	2 Channel 150 Watt 118-174 MHz Hybrid Transmitter Combiner	100 dB	\$3,753.00
TW150-4HRA1	4 Channel 150 Watt 118-174 MHz Hybrid Transmitter Combiner	70 dB	\$6,083.00
TW150-4HRB1	4 Channel 150 Watt 118-174 MHz Hybrid Transmitter Combiner	100 dB	\$8,253.00
TW150-2HRA2	2 Channel 300 Watt 118-174 MHz Hybrid Transmitter Combiner	70 dB	\$5,709.00
TW150-2HRB2	2 Channel 300 Watt 118-174 MHz Hybrid Transmitter Combiner	100 dB	\$7,466.00
TW150-4HRA2	4 Channel 300 Watt 118-174 MHz Hybrid Transmitter Combiner	70 dB	\$9,375.00
TW150-4HRB2	4 Channel 300 Watt 118-174 MHz Hybrid Transmitter Combiner	100 dB	\$11,529.00
TW220-2HRA1	2 Channel 150 Watt 216-250 MHz Hybrid Transmitter Combiner	70 dB	\$2,665.00
TW220-2HRB1	2 Channel 150 Watt 216-250 MHz Hybrid Transmitter Combiner	100 dB	\$3,753.00
TW220-4HRA1	4 Channel 150 Watt 216-250 MHz Hybrid Transmitter Combiner	70 dB	\$6,083.00
TW220-4HRB1	4 Channel 150 Watt 216-250 MHz Hybrid Transmitter Combiner	100 dB	\$8,253.00
TW450-2HRA1	2 Channel 150 Watt 406-512 MHz Hybrid Transmitter Combiner	70 dB	\$2,543.00
TW450-2HRB1	2 Channel 150 Watt 406-512 MHz Hybrid Transmitter Combiner	100 dB	\$3,581.00
TW450-4HRA1	4 Channel 150 Watt 406-512 MHz Hybrid Transmitter Combiner	70 dB	\$5,808.00
TW450-4HRB1	4 Channel 150 Watt 406-512 MHz Hybrid Transmitter Combiner	100 dB	\$7,879.00
TW860-2HRB1	2 Channel Compact 849-960 MHz Hybrid Transmitter Combiner	90 dB	\$2,339.00
TW860-2HRB1H	2 Channel Compact High Pwr. 849-960 MHz Hybrid Combiner	90 dB	\$2,529.00
TW860-4HRB1	4 Channel Compact 849-960 MHz Hybrid Transmitter Combiner	90 dB	\$4,945.00
TW860-4HRB1H	4 Channel Compact High Pwr. 849-960 MHz Hybrid Combiner	90 dB	\$5,820.00
TW900-2HRA1	2 Channel 150 Watt 806-960 MHz Hybrid Transmitter Combiner	70 dB	\$2,734.00
TW900-2HRB1	2 Channel 150 Watt 806-960 MHz Hybrid Transmitter Combiner	100 dB	\$3,266.00
TW900-4HRA1	4 Channel 150 Watt 806-960 MHz Hybrid Transmitter Combiner	70 dB	\$5,528.00
TW900-4HRB1	4 Channel 150 Watt 806-960 MHz Hybrid Transmitter Combiner	100 dB	\$7,502.00
TW930-2HRA1-SL	Studio Link - 2 Channel 25 Watt 900 MHz Hybrid Combiner	70 dB	\$1,933.00
TWH-150	400 Watt 144-174 MHz Hybrid Coupler		\$473.00
TWH-450	400 Watt 406-512 MHz Hybrid Coupler		\$473.00
TWH-900	400 Watt 806-960 MHz Hybrid Coupler		\$513.00

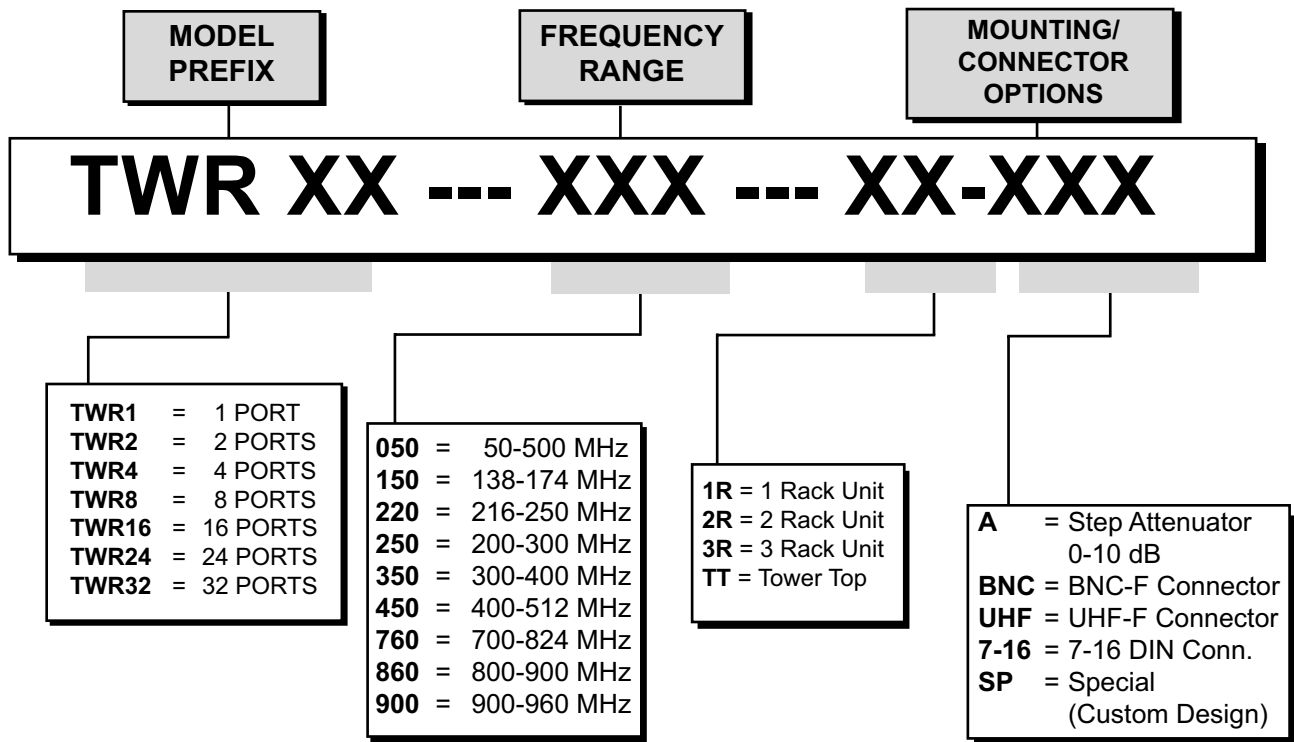
# SECTION 1

## RACKS / CABINETS

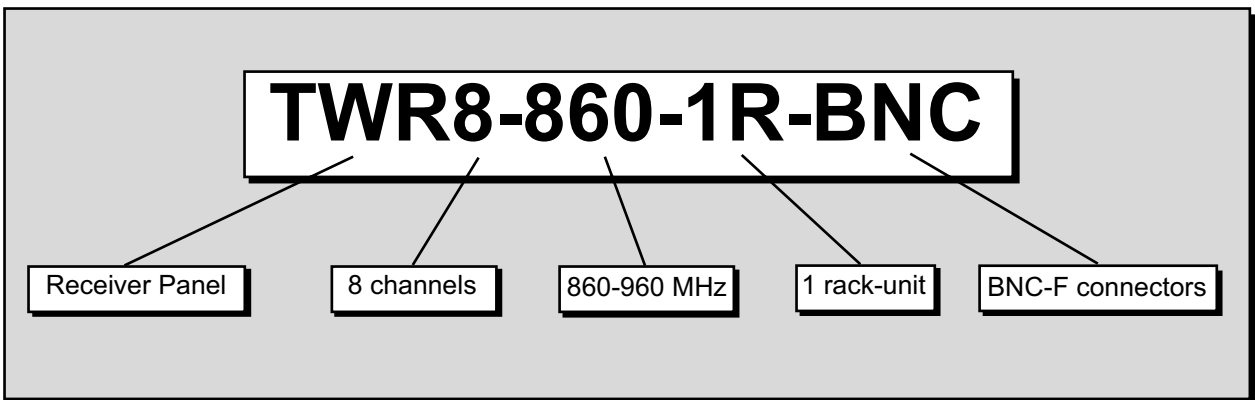
### COMBINER RACKS AND CABINETS

MODEL	DESCRIPTION	LIST PRICE
TBR72-19B	Steel Bud Relay Rack with cross-bracing. 72" H x 19" W	\$485.00
TBR84-19B	Steel Bud Relay Rack with cross-bracing. 84" H x 19" W	\$513.00
TBR90-19C	Bolted Chatsworth aluminum relay rack. 90" H x 19" W	\$1,011.00
TBC-40	Upright floor mount cabinet with removable front panel 40" H x 22" W x 17" D	\$933.00
TBC-48	Deluxe 48" upright floor mount cabinet with front and rear locking doors Standard color black. Call for color and seismic bracing options 48" H x 24" W x 32" D (150 MHz) 48" H x 24" W x 24" D (350/450 MHz)	\$1,026.00
TBC-70	Deluxe 70" upright floor mount cabinet with front and rear locking doors Standard color black. Call for color and seismic bracing options 70" H x 22" W x 25.5" D	\$2,300.00
TBX-5	5" Duplexer centering bracket (2 ea)	\$73.00
TBX-8	8" Duplexer centering bracket (2 ea)	\$89.00

# RECEIVER DISTRIBUTION PANEL MODEL NUMBER NOMENCLATURE



## EXAMPLE:



## NOTES:

Receiver Distribution Panels Ship Standard With N-Female Connectors

Standard Power Supply Voltages Available:

**+12 VDC**

**+15 VDC**

**+24 VDC**

**+48VDC**

**110 VAC**

**220 VAC**



# SECTION 2

## RECEIVER DISTRIBUTION PANELS

### 8 CHANNEL RECEIVER DISTRIBUTION PANELS

All Receiver Distribution Panels are 19" W x 7" H x 3" D, and are normally supplied with N-Female connectors, -20 dB Test Port, and 117 VAC 60 Hz / + 12 VDC Power Supply. Typical gain 6 dB.

MODEL	DESCRIPTION	FREQ. RANGE	SYSTEM GAIN	LIST PRICE
TWR8-050 *	8 Channel Receiver Distribution Panel	50-512 MHz	0-18 dB	\$1,598.00
TWR8-150	8 Channel Receiver Distribution Panel	132-174 MHz	0-18 dB	\$1,519.00
TWR8-250	8 Channel Receiver Distribution Panel	216-250 MHz	0-18 dB	\$1,519.00
TWR8-350	8 Channel Receiver Distribution Panel	300-400 MHz	0-18 dB	\$1,519.00
TWR8-450	8 Channel Receiver Distribution Panel	400-512 MHz	0-18 dB	\$1,519.00
TWR8-760	8 Channel Receiver Distribution Panel	764-824 MHz	0-18 dB	\$1,519.00
TWR8-860	8 Channel Receiver Distribution Panel	806-960 Mhz	0-18 dB	\$1,519.00

### 16 CHANNEL RECEIVER DISTRIBUTION PANELS

MODEL	DESCRIPTION	FREQ. RANGE	SYSTEM GAIN	LIST PRICE
TWR16-050 *	16 Channel Receiver Distribution Panel	50-512 MHz	0-15 dB	\$2,592.00
TWR16-150	16 Channel Receiver Distribution Panel	132-174 MHz	0-15 dB	\$2,285.00
TWR16-250	16 Channel Receiver Distribution Panel	216-250 MHz	0-15 dB	\$2,285.00
TWR16-350	16 Channel Receiver Distribution Panel	300-400 MHz	0-15 dB	\$2,285.00
TWR16-450	16 Channel Receiver Distribution Panel	400-512 MHz	0-15 dB	\$2,285.00
TWR16-760	16 Channel Receiver Distribution Panel	764-824 MHz	0-15 dB	\$2,285.00
TWR16-860	16 Channel Receiver Distribution Panel	806-960 MHz	0-15 dB	\$2,285.00

### 24 CHANNEL RECEIVER DISTRIBUTION PANELS

MODEL	DESCRIPTION	FREQ. RANGE	SYSTEM GAIN	LIST PRICE
TWR24-760	24 Channel Receiver Distribution Panel	764-824 MHz	0-12 dB	\$2,707.00
TWR24-860	24 Channel Receiver Distribution Panel	806-960 MHz	0-12 dB	\$2,707.00

#### NOTES:

1) 220 VAC power available as an option.

2) Specify N, UHF, or BNC connectors.

\* All unused ports of TWR8/16-050 units must be terminated with 50 ohm load such as TWL-01.

Actual system gain is determined by the requirements of the application.

# SECTION 2

## RECEIVER DISTRIBUTION PANELS

### COMPACT RECEIVER DISTRIBUTION PANELS 8-16 CHANNELS

All panels are 1RU (1.75") for 19" rack mount. Typical Gain 6 dB. Standard connectors are N-Female. BNC optional. 0-10 dB Step Attenuator optional on all panels. 8-way panels can be expanded to 16 channels.

MODEL	DESCRIPTION	FREQ. RANGE	SYSTEM GAIN	LIST PRICE
TWR8-050-1R	8 Channel Compact Distribution Panel, 1RU	50-500 MHz	0-18 dB	\$2,244.00
TWR8-050-1RA	TWR8-050-1R with 10dB Step Attenuator	50-500 MHz	0-18 dB	\$2,895.00
TWR8-050-1RTT *	8 Channel Compact Distribution Panel, 1RU	50-500 MHz	0-18 dB	\$2,703.00
TWR8-150-1R	8 Channel Compact Distribution Panel, 1RU	132-174 MHz	0-18 dB	\$2,244.00
TWR8-150-1RA	TWR8-050-1R with 10dB Step Attenuator	132-174 MHz	0-18 dB	\$2,895.00
TWR8-150-1RTT *	8 Channel Compact Distribution Panel, 1RU	132-174 MHz	0-18 dB	\$2,703.00
TWR8-450-1R	8 Channel Compact Distribution Panel, 1RU	406-512 MHz	0-18 dB	\$1,840.00
TWR8-450-1RA	TWR8-450-1R with 10dB Step Attenuator	406-512 MHz	0-18 dB	\$2,452.00
TWR8-450-1RTT*	8 Channel Compact Distribution Panel, 1RU	406-512 MHz	0-18 dB	\$2,297.00
TWR8-760-1R	8 Channel Compact Distribution Panel, 1RU	764-824 MHz	0-18 dB	\$1,840.00
TWR8-760-1RA	TWR8-760-1R with 10dB Step Attenuator	764-824 MHz	0-18 dB	\$2,452.00
TWR8-760-1RTT*	8 Channel Compact Distribution Panel, 1RU	764-824 MHz	0-18 dB	\$2,297.00
TWR8-760-1R-BNC**	8 Channel Compact Distribution Panel, 1RU	764-824 MHz	0-18 dB	\$1,840.00
TWR8-860-1R	8 Channel Compact Distribution Panel, 1RU	806-960 MHz	0-18 dB	\$1,840.00
TWR8-860-1RA	TWR8-860-1R with 10dB Step Attenuator	806-960 MHz	0-18 dB	\$2,452.00
TWR8-860-1RTT*	8 Channel Compact Distribution Panel, 1RU	806-960 MHz	0-18 dB	\$2,297.00
TWR8-860-1R-BNC**	8 Channel Compact Distribution Panel, 1RU	806-960 MHz	0-18 dB	\$1,840.00
TWR16-050-1R	16 Channel Compact Distribution Panel, 1RU	50-500 MHz	0-15 dB	\$3,466.00
TWR16-050-1RTT *	16 Channel Compact Distribution Panel, 1RU	50-500 MHz	0-15 dB	\$3,924.00
TWR16-150-1R	16 Channel Compact Distribution Panel, 1RU	132-174 MHz	0-15 dB	\$3,466.00
TWR16-150-1RTT *	16 Channel Compact Distribution Panel, 1RU	132-174 MHz	0-15 dB	\$3,924.00
TWR16-450-1R	16 Channel Compact Distribution Panel, 1RU	406-512 MHz	0-15 dB	\$2,654.00
TWR16-450-1RTT*	16 Channel Compact Distribution Panel, 1RU	406-512 MHz	0-15 dB	\$3,113.00
TWR16-760-1R	16 Channel Compact Distribution Panel, 1RU	764-824 MHz	0-15 dB	\$2,654.00
TWR16-760-1RTT*	16 Channel Compact Distribution Panel, 1RU	764-824 MHz	0-15 dB	\$3,113.00
TWR16-760-1RBNC**	16 Channel Compact Distribution Panel, 1RU	764-824 MHz	0-15 dB	\$2,654.00
TWR16-860-1R	16 Channel Compact Distribution Panel, 1RU	806-960 MHz	0-15 dB	\$2,654.00
TWR16-860-1RTT*	16 Channel Compact Distribution Panel, 1RU	806-960 MHz	0-15 dB	\$3,113.00
TWR16-860-1RBNC**	16 Channel Compact Distribution Panel, 1RU	806-960 MHz	0-15 dB	\$2,654.00

#### NOTES:

All unused ports of compact panels must be terminated with 50 ohm load such as TWL-01.

\* Includes 1 Amp meter movement & DC power injector for Tower Top Preamp.

\*\* Output connectors are BNC.

# SECTION 2

## RECEIVER DISTRIBUTION PANELS

### COMPACT RECEIVER PANELS 24-32 CHANNELS

All panels are 2RU (3.5") for 19" rack mount. Typical Gain 6 dB. Standard connectors are N-Female. BNC-F optional. 0-10 dB Step Attenuator optional on all panels. 24-way panels can be expanded to 32 channels.

MODEL	DESCRIPTION	FREQ. RANGE	SYSTEM GAIN	LIST PRICE
TWR24-050-2R	24 Channel Compact Distribution Panel, 2RU	50-500 MHz	0-12 dB	\$4,023.00
TWR24-150-2R	24 Channel Compact Distribution Panel, 2RU	132-174 MHz	0-12 dB	\$4,023.00
TWR24-450-2R	24 Channel Compact Distribution Panel, 2RU	406-512 MHz	0-12 dB	\$3,211.00
TWR24-760-2R	24 Channel Compact Distribution Panel, 2RU	764-824 MHz	0-12 dB	\$3,211.00
TWR24-860-2R	24 Channel Compact Distribution Panel, 2RU	806-960 MHz	0-12 dB	\$3,211.00
TWR32-050-2R	32 Channel Compact Distribution Panel, 2RU	50-500 MHz	0-12 dB	\$4,395.00
TWR32-150-2R	32 Channel Compact Distribution Panel, 2RU	132-174 MHz	0-12 dB	\$4,395.00
TWR32-450-2R	32 Channel Compact Distribution Panel, 2RU	406-512 MHz	0-12 dB	\$3,583.00
TWR32-760-2R	32 Channel Compact Distribution Panel, 2RU	764-824 MHz	0-12 dB	\$3,583.00
TWR32-860-2R	32 Channel Compact Distribution Panel, 2RU	806-960 MHz	0-12 dB	\$3,583.00

**NOTE:** All unused ports of compact panels must be terminated with 50 ohm load such as TWL-01.

### RECEIVER POWER SPLITTERS

Receiver Splitters are designed for **receiver** systems only. Splitters are factory tuned for best performance in 150-174, 450-470, 764-824, and 806-869 MHz bands. Please specify center frequency if outside these ranges.

MODEL	DESCRIPTION	FREQ. RANGE	TYP. LOSS	LIST PRICE
PS-302	Low Band 2-Way Receiver Power Splitter	33-50 MHz	-3.2 dB	\$100.00
PS-702	Mid Band 2-Way Receiver Power Splitter	72-88 MHz	-3.2 dB	\$100.00
PS-1502	VHF Band 2-Way Receiver Power Splitter	132-174 MHz	-3.2 dB	\$100.00
PS-1504	VHF Band 4-Way Receiver Power Splitter	132-174 MHz	-6.4 dB	\$185.00
PS-3302	UHF Band 2-Way Receiver Power Splitter	320-390 MHz	-3.2 dB	\$100.00
PS-4502	UHF Band 2-Way Receiver Power Splitter	400-512 MHz	-3.2 dB	\$100.00
PS-4504	UHF Band 4-Way Receiver Power Splitter	400-512 MHz	-6.4 dB	\$185.00
PS-4508-BNC	UHF Band 8-Way Receiver Power Splitter BNC-F	400-512 MHz	-9.6 dB	\$341.00
PS-4508-N	UHF Band 8-Way Receiver Power Splitter N-F	400-512 MHz	-9.6 dB	\$372.00
PS-7602	700 MHz 2-Way Receiver Power Splitter. Specify connector	764-824 MHz	-3.2 dB	\$100.00
PS-7604	700 MHz 4-Way Receiver Power Splitter. Specify connector	764-824 MHz	-6.4 dB	\$185.00
PS-7608-BNC	700 MHz 8-Way Receiver Power Splitter BNC-F	764-824 MHz	-9.6 dB	\$341.00
PS-7608-N	700 MHz 8-Way Receiver Power Splitter N-F	764-824 MHz	-9.6 dB	\$372.00
PS-8602	800 MHz 2-Way Receiver Power Splitter. Specify connector	806-960 MHz	-3.2 dB	\$100.00
PS-8604	800 MHz 4-Way Receiver Power Splitter. Specify connector	806-960 MHz	-6.4 dB	\$185.00
PS-8608-BNC	800 MHz 8-Way Receiver Power Splitter BNC-F	806-960 MHz	-9.6 dB	\$341.00
PS-8608-N	800 MHz 8-Way Receiver Power Splitter N-F	806-960 MHz	-9.6 dB	\$372.00
PS-5002 *	Broadband 2-Way Receiver Power Splitter	10-1000 MHz	-3.2 dB	\$222.00
PS-5004 *	Broadband 4-Way Receiver Power Splitter	10-1000 MHz	-6.4 dB	\$413.00

#### NOTES:

Specify connectors: N, UHF, or BNC Female

\* All unused ports of PS-5002/5004 must be terminated with 50 ohm load such as TWL-01.

**TELEWAVE, INC.** 660 Giguere Court San Jose, CA 95133 Toll Free: **1-800-331-3396** Direct: 408-929-4400 Fax: 408-929-4080

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Email: [sales@telewave.com](mailto:sales@telewave.com)

## SECTION 2

### RECEIVER PREAMPLIFIERS

#### BROADBAND RACK MOUNT PREAMPLIFIERS

Preamplifiers are mounted on a 1.75" H x 19" W panel or tray, and include a 0-10dB attenuator and 110/220 VAC to +11-18 VDC power supply. Bandwidth is approximately 10% of operating frequency for each unit. Specify GaAsFET or Bipolar preamp.

MODEL	DESCRIPTION	FREQ. RANGE	SYST. GAIN	LIST PRICE
TWR1-150	Rack Mount Preamp with 10dB attenuator	132-170 MHz	+8 to +18 dB	\$1,731.00
TWR1-220	Rack Mount Preamp with 10dB attenuator	200-300 MHz	+8 to +18 dB	\$1,731.00
TWR1-450	Rack Mount Preamp with 10dB attenuator	400-512 MHz	+8 to +18 dB	\$1,731.00
TWR1-760	Rack Mount Preamp with 10dB attenuator	764-824 MHz	0 to +10 dB	\$1,731.00
TWR1-860	Rack Mount Preamp with 10dB attenuator	800-960 MHz	0 to +10 dB	\$1,731.00

#### BIPOLAR PREAMPLIFIERS

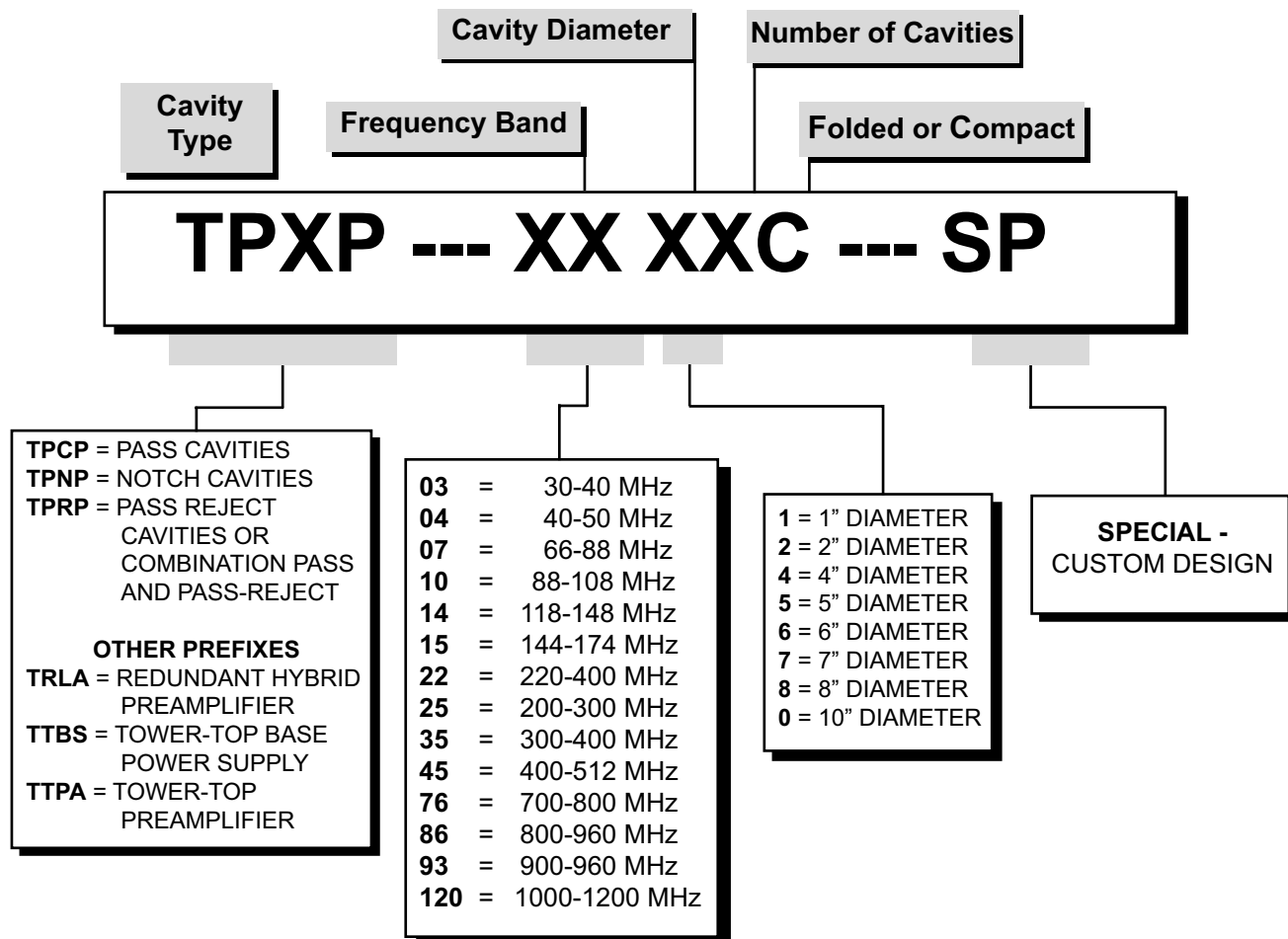
MODEL	DESCRIPTION	FREQ. RANGE	SYST. GAIN	LIST PRICE
TLA50-12	Low noise inline preamplifier, +12V (specify freq.)	30-54 MHz	6-28 dB *	\$483.00
TLA150-12	Low noise inline preamplifier, +12V (specify freq.)	132-174 MHz	6-28 dB *	\$483.00
TLA220-12	Low noise inline preamplifier, +12V (specify freq.)	216-250 MHz	6-28 dB *	\$483.00
TLA330-12	Low noise inline preamplifier, +12V (specify freq.)	320-390 MHz	6-28 dB *	\$483.00
TLA450-12	Low noise inline preamplifier, +12V (specify freq.)	400-512 MHz	6-28 dB *	\$483.00
TLA760-12	Low noise inline preamplifier, +12V (specify freq.)	764-824 MHz	6-20 dB *	\$483.00
TLA860-12	Low noise inline preamplifier, +12V (specify freq.)	806-960 MHz	6-20 dB *	\$483.00

\* Factory Adjustable

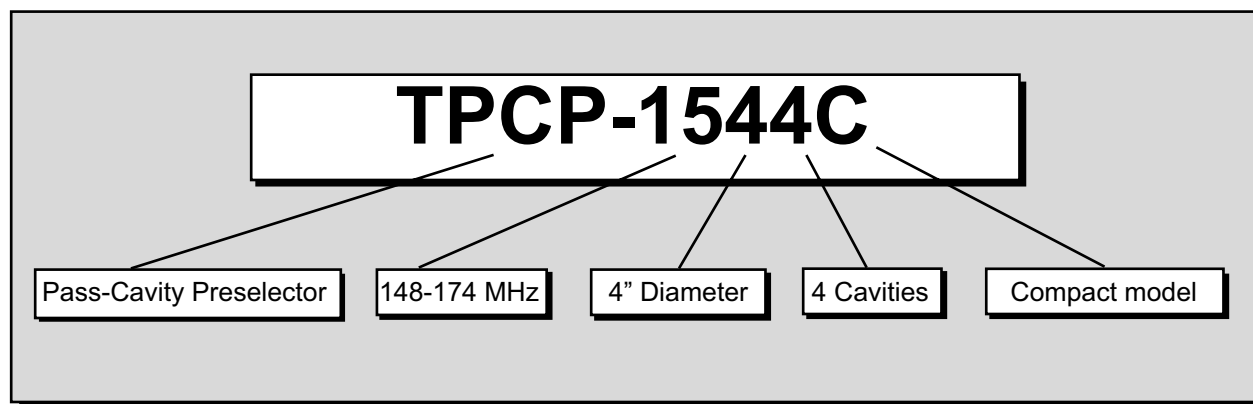
#### GaAsFET PREAMPLIFIERS

MODEL	DESCRIPTION	FREQ. RANGE	SYST. GAIN	LIST PRICE
TGA150-12	GaAsFET inline preamplifier, +12V (specify freq.)	132-174 MHz	22 dB	\$582.00
TGA450-12	GaAsFET inline preamplifier, +12V (specify freq.)	400-512 MHz	17 dB	\$582.00
TGA750-12	GaAsFET inline preamplifier, +12V (specify freq.)	764-824 MHz	15 dB	\$582.00
TGA860-12	GaAsFET inline preamplifier, +12V (specify freq.)	806-960 MHz	15 dB	\$582.00

# PRESELECTOR MODEL NUMBER NOMENCLATURE



## EXAMPLE:



## FOLDED CAVITIES:

Special coaxial cavities which are about 3/4 as long as a standard 1/4-wave cavity.

Folded cavities are required where cavities are mounted on a 19" wide panel.

Add 10% to standard pricing for folded cavities. Consult factory for special configurations.

# SECTION 2

## PRESELECTORS

### RECEIVER PRESELECTORS 70-430 MHz

Cavity Receiver Preselectors up to 300 MHz are generally strapped together with 19" mounting rails.  
Above 300 MHz, cavities are generally mounted on a 19" panel. All square cavities are panel mounted.

MODEL	DESCRIPTION	FREQUENCY RANGE	BANDPASS	LIST PRICE
TPCP-0714	4 Stage Helical Receiver Preselector	70-90 MHz	2 MHz	\$370.00
TPCP-1454	4 Cavity Receiver Preselector	118-148 MHz	700 KHz	\$1,227.00
TPCP-1456	6 Cavity Receiver Preselector	118-148 MHz	2 MHz	\$1,922.00
TPCP-1342C	2 Cavity Square Compact Preselector	118-136 MHz	700 KHz	\$754.00
TPCP-1343C	3 Cavity Square Compact Preselector	118-136 MHz	1.5 MHz	\$1,103.00
TPCP-1344C	4 Cavity Square Compact Preselector	118-136 MHz	2 MHz	\$1,422.00
TPCP-1414	4 Stage Helical Receiver Preselector	140-150 MHz	2 MHz	\$338.00
TPCP-1442C	2 Cavity Square Compact Preselector	135-151 MHz	700 KHz	\$722.00
TPCP-1443C	3 Cavity Square Compact Preselector	135-151 MHz	1.5 MHz	\$1,055.00
TPCP-1444C	4 Cavity Square Compact Preselector	135-151 MHz	2 MHz	\$1,360.00
TPCP-1444CM	4 Cavity Square Compact Preselector	135-151 MHz	2 MHz	\$1,487.00
TPCP-1446C	6 Cavity Square Compact Preselector	135-151 MHz	2.5 MHz	\$2,115.00
TPCP-1514	4 Stage Helical Receiver Preselector	148-174 MHz	2 MHz	\$338.00
TPCP-1542C	2 Cavity Square Compact Preselector	148-174 MHz	700 KHz	\$722.00
TPCP-1543C	3 Cavity Square Compact Preselector	148-174 MHz	1.5 MHz	\$1,055.00
TPCP-1544C	4 Cavity Square Compact Preselector	148-174 MHz	2 MHz	\$1,360.00
TPCP-1544CM	4 Cavity Square Compact Preselector	148-174 MHz	2 MHz	\$1,487.00
TPCP-1544F	4 Cavity Receiver Preselector	148-174 MHz	800 KHz	\$1,313.00
TPCP-1546C	6 Cavity Square Compact Preselector	148-174 MHz	2.5 MHz	\$2,115.00
TPCP-1554	4 Cavity Receiver Preselector	148-174 MHz	700 KHz	\$1,227.00
TPCP-1556	6 Cavity Receiver Preselector	148-174 MHz	2 MHz	\$1,922.00
TPCP-2244	4 Cavity Receiver Preselector	200-300 MHz	2 MHz	\$1,251.00
TPCP-2248	8 Cavity Receiver Preselector	200-300 MHz	4 MHz	\$1,673.00
TPCP-3544	4 Cavity Receiver Preselector	300-400 MHz	2 MHz	\$1,367.00
TPCP-3546	6 Cavity Receiver Preselector	300-400 MHz	4 MHz	\$1,768.00
TPCP-3548	8 Cavity Receiver Preselector	300-400 MHz	4 MHz	\$2,727.00
TPCP-3844	4 Cavity Receiver Preselector	370-430 MHz	2 MHz	\$1,367.00
TPCP-3846	6 Cavity Receiver Preselector	370-430 MHz	4 MHz	\$1,768.00

# SECTION 2

## PRESELECTORS

### RECEIVER PRESELECTORS 400-960 MHz

MODEL	DESCRIPTION	FREQUENCY RANGE	BANDPASS	LIST PRICE
TPCP-4542	2 Cavity Receiver Preselector	400-512 MHz	1 MHz	\$800.00
TPCP-4544	4 Cavity Receiver Preselector	400-512 MHz	2 MHz	\$1,367.00
TPCP-4546	6 Cavity Receiver Preselector	400-512 MHz	4 MHz	\$1,768.00
TPCP-4548	8 Cavity Receiver Preselector	400-512 MHz	4 MHz	\$2,727.00
TPCP-4514	4 Stage Helical Receiver Preselector	450-470 MHz	4 MHz	\$323.00
TPCP-45215	15 Pole Combline Preselector	455-460 MHz	4 MHz	\$1,352.00
TPCP-46215	15 Pole Combline Preselector	465-470 MHz	4 MHz	\$1,352.00
TPCP-45215-2	Dual Window Combline Preselector Includes TPCP-45215 and TPCP-46215	455-460 MHz 465-470 MHz	4 MHz 4 MHz	\$2,871.00
TPCP-7644	4 Cavity Receiver Preselector	764-824 MHz	5 MHz	\$1,367.00
TTPP-8642	2 Cavity Receiver Preselector	806-960 MHz	5 MHz	\$880.00
TPCP-8644	4 Cavity Receiver Preselector	806-960 MHz	5 MHz	\$1,367.00
TPCP-8626	6 Pole Combline Receiver Preselector	806-960 MHz	15 MHz	\$880.00
TPCP-8626B	6 Pole Combline Receiver Preselector	806-821 MHz	10 MHz	\$880.00
TPCP-8926B	6 Pole Combline Receiver Preselector	824-849 MHz	10 MHz	\$880.00
TPCP-8928	8 Pole Combline Receiver Preselector	824-849 MHz	25 MHz	\$934.00
TPCP-8928-2A	2 Antenna Dual Combline Preselector	824-849 MHz	25 MHz	\$2,155.00
TPCP-9063	3 Cavity Receiver Preselector	806-960 MHz	500 KHz	\$1,188.00

# SECTION 2

## TOWER TOP SERIES

### TOWER TOP PREAMPLIFIERS AND PRESELECTORS

Tower Top Preamplifiers and Preselectors are housed in a NEMA 4 standard weather-proof housing. Dimensions are 20" H x 16" W x 10" D unless noted. Pricing may vary depending on filtering requirements.

MODEL	DESCRIPTION	LIST PRICE
TTPA-3544	Tower Top Preamplifier. 300-400 MHz. 2 MHz BW Preselector with four 4" High-Q cavities. >35dB attenuation at +/-10 MHz F <sub>o</sub> . NEMA 4 std. enclosure.	\$5,484.00
TTPA-3548	Tower Top Preamplifier. 300-400 MHz. 4 MHz BW Preselector with eight 4" High-Q cavities. >80dB attenuation at +/-10 MHz F <sub>o</sub> . NEMA 4 std. enclosure.	\$6,727.00
TTPA-4544	Tower Top Preamplifier. 400-512 MHz. 2 MHz BW Preselector with four 4" High-Q cavities. >35dB attenuation at +/-10 MHz F <sub>o</sub> . NEMA 4 std. enclosure.	\$5,525.00
TTPA-4548	Tower Top Preamplifier. 400-512 MHz. 4 MHz BW Preselector with eight 4" High-Q cavities. >80dB attenuation at +/-10 MHz F <sub>o</sub> . NEMA 4 std. enclosure.	\$6,727.00
TTPA-4586 *	Tower Top Preamplifier, 400-512 MHz. Dual window Preselector with 2 UHF Combine filters crossband-coupled to a 15 MHz Combine filter in the 800 MHz trunking bands. NEMA 4 enclosure. 24" H x 20" W x 12" D.	Contact Factory
TTPA-45215-2	Tower Top Preamplifier. 4 MHz BW in 400-512 MHz band. Includes 2 UHF Combine Preselectors in multi-window configuration. NEMA 4 enclosure. 24" H x 20" W x 12" D.	Contact Factory
TTPA-7644	Tower Top Preamplifier. 764-824 MHz. 5 MHz BW Preselector with four 4" High-Q cavities. >35dB attenuation at +/-10 MHz F <sub>o</sub> . NEMA 4 std. enclosure.	\$5,484.00
TTPA-7648	Tower Top Preamplifier. 764-824 MHz. 5 MHz BW Preselector with eight 4" High-Q cavities. >80dB attenuation at +/- 10 MHz F <sub>o</sub> . NEMA 4 std. enclosure.	\$6,727.00
TTPA-8626	Tower Top Preamplifier. 806-960 MHz. Includes Combine Preselector with 10, 15, or 20 MHz bandwidth. NEMA 4 enclosure. 16" H x 8" W x 6" D	\$5,040.00
TTPA-8644	Tower Top Preamplifier. 806-960 MHz. 5 MHz BW Preselector with four 4" High-Q cavities. >35dB attenuation at +/- 10 MHz F <sub>o</sub> . NEMA 4 std. enclosure.	\$5,484.00
TTPA-8648	Tower Top Preamplifier. 806-960 MHz. 5 MHz BW Preselector with eight 4" High-Q cavities. >80dB attenuation at +/- 10 MHz F <sub>o</sub> . NEMA 4 std. enclosure.	\$6,727.00
TTPA-8690	Tower Top Preamplifier. Includes dual window Preselector in 806-821 MHz bands and 896-902 MHz bands. Housed in NEMA 4 std. enclosure.	\$6,282.00
TTPA-8926B-A	Cellular Tower Top Preamplifier with dual window Preselector. Passes 824-835 MHz & 845-847 MHz. <b>Notches B-band</b> . NEMA 4 std. enclosure.	\$7,246.00
TTPA-8926B-B	Cellular Tower Top Preamplifier with dual window Preselector. Passes 835-845 MHz & 847-849 MHz. <b>Notches A-band</b> . NEMA 4 std. enclosure.	\$7,246.00
TTPA-8928	Cellular Tower Top Preamplifier. 824-849 MHz includes Combine Preselector with 26 MHz bandpass. Housed in NEMA 4 enclosure. 16" H x 8" W x 6" D	\$5,289.00
TTBS-4586	Tower Top Base Power Supply (Required for Tower Top Amps)	\$1,032.00
TTBS-4586A	Tower Top Base Power Supply with Current Alarm Circuit	\$1,448.00
TTBS-4586AB	Tower Top Base Power Supply with Current Alarm Circuit and Step Attenuator	\$2,053.00

\* Typical configuration. Other filtering options available depending on requirements.



# SECTION 3

## POWER MONITORS

### POWER MONITORS

Connectors: RF In / Out - Specify N or UHF. Sampling Ports - RCA standard, BNC optional (add \$13.00).

MODEL	DESCRIPTION	FREQ. RANGE	LIST PRICE
PM-1A-50	Power Monitor, Single direction 1000 Watts	30-88 MHz	\$118.00
PM-1A-300	Power Monitor, Single direction (50 MHz BW) 1000 Watts	118-512 MHz	\$118.00
PM-1A-900	Power Monitor, Single direction (50 MHz BW) 1000 Watts	806-960 MHz	\$143.00
PM-2A-50	Power Monitor, Dual direction 1000 Watts	30-88 MHz	\$130.00
PM-2A-300	Power Monitor, Dual direction (50 MHz BW) 1000 Watts	118-512 MHz	\$130.00
PM-2A-900	Power Monitor, Dual direction (50 MHz BW) 1000 Watts	806-960 MHz	\$157.00
TWSC-8940	Single directional coupler. 10% BW. -40dB coupling, 0.1 dB IL., 500 watts, +/-0.2dB flatness. Calibrated to center of required frequency band. N-F connector input and output.	250-960 MHz	\$252.00
TWDC-8940	Dual directional coupler. 10% BW. -40dB coupling, 0.1 dB IL., 500 watts, +/-0.2dB flatness. Calibrated to center of required frequency band. N-F connector in/out, BNC coupler connectors.	250-960 MHz	\$340.00
PMC-50	50 uA unmounted Panel Meter calibrated in watts. For use with PM-1A or PM-2A.		\$156.00
PM8C2S	Wattmeter Panel for 24" Welded Rack Mounting. Monitors 8 transmitters and 2 antennas, and has 8 transmitter remote keying switches.		\$802.00
PM12C3S	Wattmeter Panel for 24" Welded Rack Mounting. Monitors 12 transmitters and 3 antennas, and has 12 transmitter remote keying switches.		\$837.00
PM10C2S1C	Compact Wattmeter Panel for 19" Rack Mounting. Fits in 1.75" rack space Monitors 10 transmitters and 2 antennas. 10 TX remote keying switches.		\$837.00
PM10C5S	Wattmeter Panel for 19" Rack Mounting. Monitors 10 transmitters or 5 antennas, and has 10 transmitter remote keying switches.		\$837.00
PM1C1S	Remote RF Power Monitoring VSWR Alarm Panel for 19" Rack Mounting Monitors one transmitter and one antenna. Includes one Power Monitor.		\$1,165.00
PM5C1S	Remote RF Power Monitoring VSWR Alarm Panel for 19" Rack Mounting. Monitors five transmitters and one antenna. (Does not include power monitors).		\$2,201.00
PMU2C1S	Remote VSWR/RF power monitoring panel. Monitors output of single or combined transmitters. VSWR / low power alarms. LED fault light, form "C" relay closure, and RS-232 or RS-485 signalling. Vertical mount 7.00" x 1.75"		\$2,739.00
PMU2C1S-TM	PMU2C1S with built in modem.		\$3,237.00
PMU2C1S-1R	Remote VSWR/RF power monitoring panel. Monitors main power output of single or combined transmitters. Alarms for VSWR and low power. LED fault light, form "C" relay closure, and RS-232 or RS-485 signalling. Mounts in 1.75" x 19" space.		\$2,739.00
PMU2C1S-1RM	PMU2C1S-1R with built in modem.		\$3,237.00
CBL-01	3 ft., 2 conductor cable, RCA Male. Connects power monitor to wattmeter panel.		\$11.00
CBL-02	6 ft., 2 conductor cable, RCA Male. Connects power monitor to wattmeter panel.		\$11.00
CBL-03	12 ft., 2 conductor cable, RCA Male. Connects power monitor to wattmeter panel.		\$11.00

# SECTION 3

## WATTMETERS AND LOADS

### BROADBAND WATTMETERS

Wattmeters are supplied standard with N-Female connectors, which are recommended above 500 MHz. Please specify UHF if required. DIN-F optional (additional cost).

MODEL	DESCRIPTION	LIST PRICE
Model 44A	Broadband Wattmeter 20 MHz to 1000 MHz	\$715.00
Model 44AP	Broadband Wattmeter 20 MHz to 1000 MHz. -40 dB sampling port	\$777.00
Model 44L1	Low Frequency Broadband Wattmeter 2 MHz to 200 MHz	\$715.00
Model 44L1P	Low Frequency Broadband Wattmeter 2 MHz to 200 MHz. -40 dB sampling port	\$777.00
TC44	Custom carrying case for all Telewave Wattmeters	\$103.00
QC44B	Quick Change BNC-female connector with 1" flange	\$19.00
QC44D	Quick Change DIN-female connector with 1" flange	\$81.00
QC44N	Quick Change N-female connector with 1" flange	\$19.00
QC44S	Quick Change UHF-female connector with 1" flange	\$19.00
QC44T	Quick Change TNC-female connector with 1" flange	\$20.00
CO2000	Tele-Dapt 2000 RF Adapter Kit with Carry Case	\$150.00

### 50 OHM COAXIAL LOADS

Loads are supplied standard with N-Female connectors, which are recommended above 500 MHz. Please specify UHF if required. DIN-F optional (additional cost).

MODEL	DESCRIPTION	FREQ. RANGE	CONNECTORS AVAILABLE	POWER (WATTS)	LIST PRICE
TWL-01	Port Termination	0-2500 MHz	N-M, BNC-M	0.1	\$20.00
TWL-35	Coaxial Dry Load	0-1000 MHz	N-M, UHF-M	35	\$96.00
TWL-50	Coaxial Dry Load	0-2500 MHz	N-M/F, UHF-M/F (QC)	50	\$183.00
TWL-60	Coaxial Dry Load	0-1000 MHz	N-M, UHF-M	60	\$111.00
TWL-75	Coaxial Dry Load	0-2500 MHz	N, UHF M/F, DIN-F (QC)	75	\$240.00
TWL-100	Coaxial Dry Load	0-2500 MHz	N-M/F, UHF-M/F (QC)	100	\$299.00
TWL-100HS	High Standard Termination	0-2500 MHz	N-M/F, UHF-M/F (QC)	100	\$363.00
TWL-100P	Panel Mount Coaxial Load	0-2500 MHz	N-M/F, UHF-M/F (QC)	100	\$407.00
TWL-150	Coaxial Dry Bench Load	0-2500 MHz	N-M/F, UHF-M/F (QC)	150	\$370.00
TWL-300	Coaxial Dry Bench Load	0-1000 MHz	N-F	300	\$685.00
QCLDF	Quick Change Connector for Loads - DIN Female 1-1/4" flange				\$51.00
QCLNM	Quick Change Connector for Loads - N Male 1-1/4" flange				\$31.00
QCLNF	Quick Change Connector for Loads - N Female 1-1/4" flange				\$12.00
QCLSM	Quick Change Connector for Loads - UHF Male 1-1/4" flange				\$22.00
QCLSF	Quick Change Connector for Loads - UHF Female 1-1/4" flange				\$14.00

# SECTION 4

## ISOLATORS

### ISOLATORS

150 Watt Isolators include 35W Removable Loads, and can mount on 19" x 5.25" Panels.

200-400 Watt Isolators include 60W Removable Loads, and can mount on 19" x 8.75" Panels.

MODEL	DESCRIPTION	FREQ. RANGE	ISOLATION	TX POWER	LIST PRICE
T-1030	Single Isolator	66-108 MHz	35 dB	150 W	\$507.00
T-1060	Dual Isolator	66-108 MHz	70 dB	150 W	\$994.00
T-1530	Single Isolator	118-174 MHz	35 dB	150 W	\$507.00
T-1560	Dual Isolator	118-174 MHz	70 dB	150 W	\$994.00
T-1530H	Single Isolator	148-174 MHz	35 dB	300 W	\$1,356.00
T-1560H	Dual Isolator	148-174 MHz	70 dB	300 W	\$2,949.00
T-2230	Single Isolator	216-250 MHz	35 dB	150 W	\$507.00
T-2260	Dual Isolator	216-250 MHz	70 dB	150 W	\$994.00
T-3530	Single Isolator	300-400 MHz	35 dB	150 W	\$507.00
T-3560	Dual Isolator	300-400 MHz	70 dB	150 W	\$994.00
T-4530	Single Isolator	400-512 MHz	35 dB	150 W	\$507.00
T-4560	Dual Isolator	400-512 MHz	70 dB	150 W	\$994.00
T-4530H	Single Isolator	400-512 MHz	35 dB	400 W	\$790.00
T-4560H	Dual Isolator	400-512 MHz	70 dB	400 W	\$1,271.00
T-7530	Single Isolator	700-806 MHz	35 dB	150 W	\$507.00
T-7560	Dual Isolator	700-806 MHz	70 dB	150 W	\$994.00
T-8630	Single Isolator	800-960 MHz	35 dB	150 W	\$507.00
T-8660	Dual Isolator	800-960 MHz	70 dB	150 W	\$994.00
T-8660H	Dual Isolator	800-960 MHz	70 dB	300 W	\$1,144.00
T-1030CM	Single isolator - cavity mount. With 35 watt removable load.	66-108 MHz	35 dB	150 W	\$608.00
T-1060CM	Dual isolator - cavity mount. Two 35 watt removable loads.	66-108 MHz	70 dB	150 W	\$1,098.00
T-1530CM	Single isolator - cavity mount. With 35 watt removable load.	118-174 MHz	35 dB	150 W	\$608.00
T-1560CM	Dual isolator - cavity mount. Two 35 watt removable loads.	118-174 MHz	70 dB	150 W	\$1,098.00
T-4530CM	Single isolator - cavity mount. With 35 watt removable load.	406-512 MHz	35 dB	150 W	\$608.00
T-4560CM	Dual isolator - cavity mount. Two 35 watt removable loads.	406-512 MHz	70 dB	150 W	\$1,098.00

#### NOTES:

- 1) Built-in power monitoring available on 450, 750, & 800 MHz models.  
Use "D" suffix and add \$130.00 at 450 MHz, or \$157.00 at 700 and 800 MHz.
- 2) Please specify exact operating frequency and connector type with order.
- 3) Higher power handling available. Consult factory with requirements.

# SECTION 4

## I.M. SUPPRESSION PANELS

### INTERMODULATION SUPPRESSION PANELS

Intermod Panels mount on 19" Rack. 150 Watt models are 5.25" high, 300-400 Watt models are 8.75" high.  
Power Handling: 50 or 100 Watts Reflected, 150-400 Watts Forward. 150 and 300 Watt output loads available.  
Consult factory for pricing.

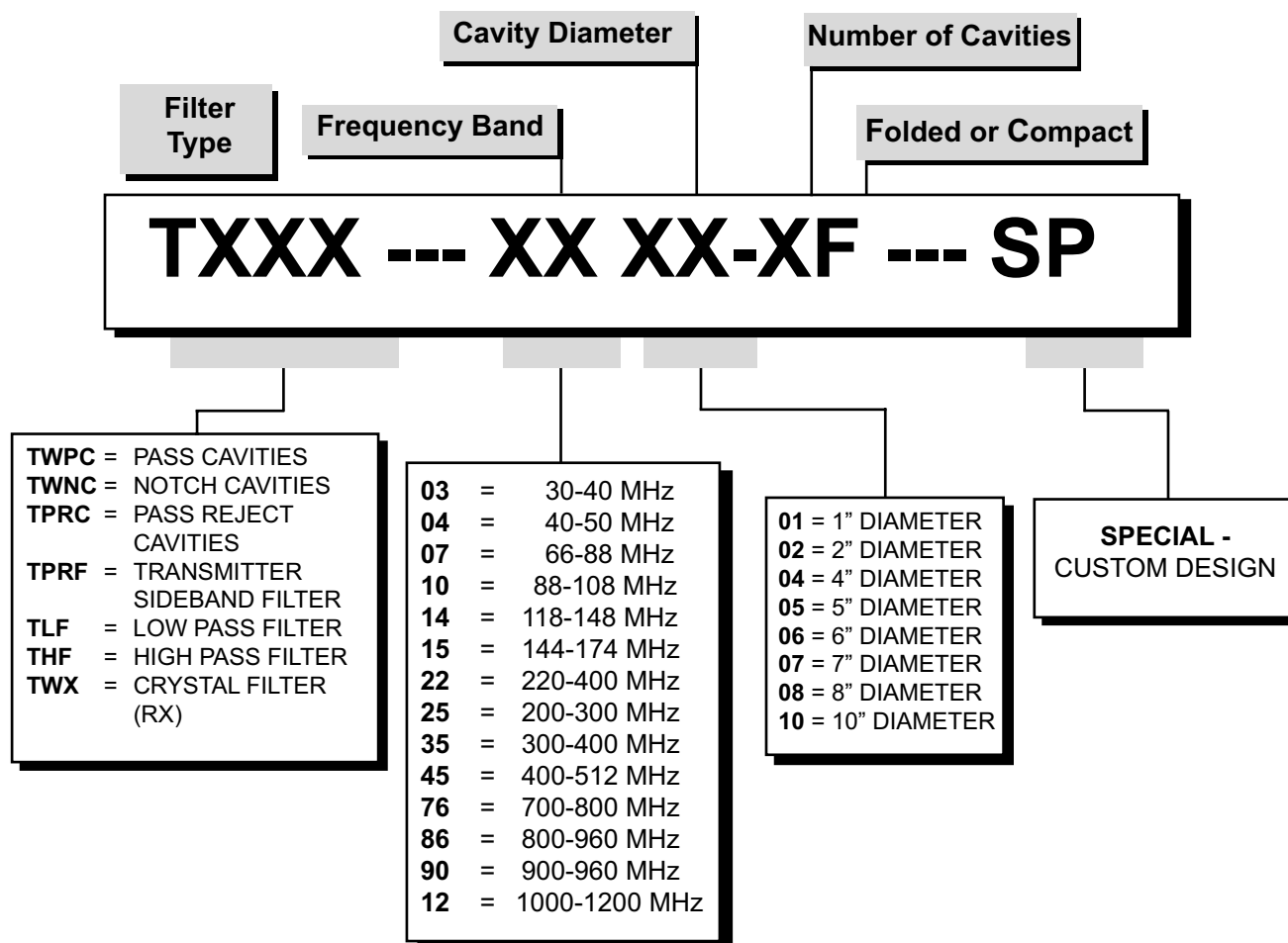
MODEL	DESCRIPTION	FREQ. RANGE	ISOLATION	TX POWER	LIST PRICE
TS150PA1	Single Isolator with Filter - 50 W Load	118-174 MHz	35 dB	150 W	\$801.00
TS150PB1	Dual Isolator with Filter - 50 W Load	118-174 MHz	70 dB	150 W	\$1,271.00
TS150PA2	Single Isolator with Filter - 100 W Load	118-174 MHz	35 dB	300 W	\$1,671.00
TS150PB2	Dual Isolator with Filter - 100 W Load	118-174 MHz	70 dB	300 W	\$3,207.00
TS220PA1	Single Isolator with Filter - 50 W Load	216-250 MHz	35 dB	150 W	\$801.00
TS220PB1	Dual Isolator with Filter - 50 W Load	216-250 MHz	70 dB	150 W	\$1,271.00
TS450PA1	Single Isolator with Filter - 50 W Load	406-512 MHz	35 dB	150 W	\$801.00
TS450PB1	Dual Isolator with Filter - 50 W Load	406-512 MHz	70 dB	150 W	\$1,271.00
TS450PA2	Single Isolator with Filter - 100 W Load	406-512 MHz	35 dB	400 W	\$1,021.00
TS450PB2	Dual Isolator with Filter - 100 W Load	406-512 MHz	70 dB	400 W	\$1,596.00
TS900PA1	Single Isolator with Filter - 50 W Load	806-960 MHz	35 dB	150 W	\$857.00
TS900PB1	Dual Isolator with Filter - 50 W Load	806-960 MHz	70 dB	150 W	\$1,387.00
TS900PB2	Dual Isolator with Filter - 100 W Load	806-960 MHz	70 dB	300 W	\$1,647.00

### HIGH PERFORMANCE REPEATER PANELS

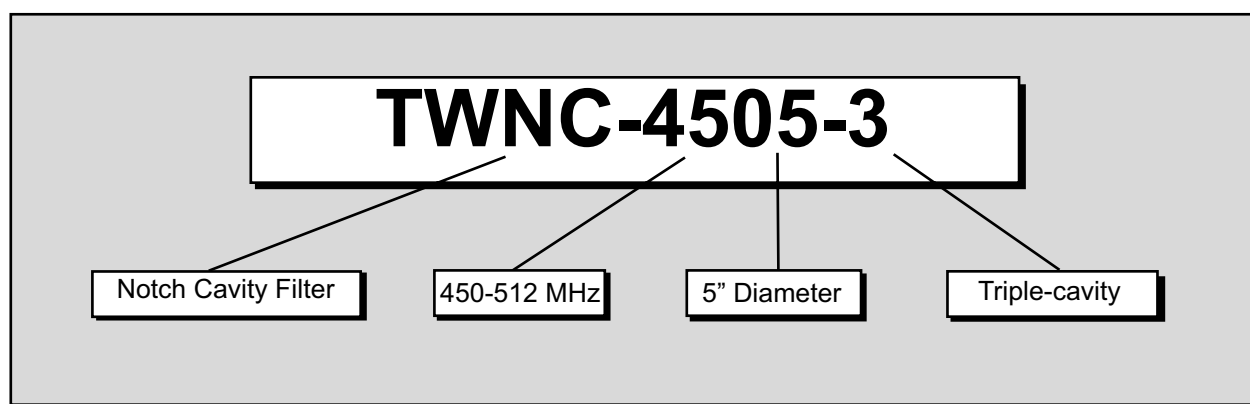
Each Panel includes integrated Duplexer, Receiver Preamplifier, Preselector, Low Pass Filter and Dual Isolator.

MODEL	DESCRIPTION	FREQ. RANGE	ISOLATION	TX POWER	LIST PRICE
THRP-1548	High Performance Repeater Panel	144-172 MHz	60 dB	150 W	\$4,073.00
THRP-4548	High Performance Repeater Panel	406-512 MHz	60 dB	150 W	\$3,857.00
THRP-8648	High Performance Repeater Panel	806-960 MHz	60 dB	150 W	\$3,857.00

# CAVITIES AND FILTERS MODEL NUMBER NOMENCLATURE



## EXAMPLE:



## FOLDED CAVITIES:

Special coaxial cavities which are about 3/4 as long as a standard 1/4-wave cavity.

Folded cavities are required where cavities are mounted on a 19" wide panel.

Add 10% to standard pricing for folded cavities. Consult factory for special configurations.

# SECTION 5

## CAVITIES

### BANDPASS/REJECT CAVITIES WITH ADJUSTABLE COUPLING

#### 30 - 40 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TPRC-0305-1	Single Cavity	5"	\$794.00
TPRC-0305-2	Dual Cavity	5"	\$1,632.00
TPRC-0308-1	Single Cavity	8"	\$967.00
TPRC-0308-2	Dual Cavity	8"	\$1,977.00
TPRC-0310-1	Single Cavity	10"	\$1,129.00
TPRC-0310-2	Dual Cavity	10"	\$2,300.00

#### 40 - 50 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TPRC-0405-1	Single Cavity	5"	\$637.00
TPRC-0405-2	Dual Cavity	5"	\$1,286.00
TPRC-0408-1	Single Cavity	8"	\$805.00
TPRC-0408-2	Dual Cavity	8"	\$1,654.00
TPRC-0410-1	Single Cavity	10"	\$967.00
TPRC-0410-2	Dual Cavity	10"	\$1,977.00

#### 66 - 88 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TPRC-0705-1	Single Cavity	5"	\$397.00
TPRC-0705-2	Dual Cavity	5"	\$838.00
TPRC-0708-1	Single Cavity	8"	\$537.00
TPRC-0708-2	Dual Cavity	8"	\$1,120.00
TPRC-0710-1	Single Cavity	10"	\$624.00
TPRC-0710-2	Dual Cavity	10"	\$1,290.00

#### 88 - 108 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TPRC-1005-1	Single Cavity	5"	\$300.00
TPRC-1005-2	Dual Cavity	5"	\$642.00
TPRC-1008-1	Single Cavity	8"	\$430.00
TPRC-1008-2	Dual Cavity	8"	\$904.00

#### 118 - 148 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TPRC-1405-1	Single Cavity	5"	\$300.00
TPRC-1405-2	Dual Cavity	5"	\$642.00
TPRC-1408-1	Single Cavity	8"	\$430.00
TPRC-1408-2	Dual Cavity	8"	\$904.00
TPRC-1410-1	Single Cavity	10"	\$485.00
TPRC-1410-2	Dual Cavity	10"	\$1,013.00
TBC-40	Upright Cabinet - Indoor		\$933.00

#### 148 - 174 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TPRC-1505-1	Single Cavity	5"	\$293.00
TPRC-1505-2	Dual Cavity	5"	\$626.00
TPRC-1505-3	Triple Cavity	5"	\$963.00
TPRC-1508-1	Single Cavity	8"	\$409.00
TPRC-1508-2	Dual Cavity	8"	\$861.00
TPRC-1508-3	Triple Cavity	8"	\$1,310.00
TPRC-1510-1	Single Cavity	10"	\$515.00
TPRC-1510-2	Dual Cavity	10"	\$1,074.00
TPRC-1510-3	Triple Cavity	10"	\$1,631.00

#### 200 - 300 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TPRC-2204-1	Single Cavity	4"	\$343.00
TPRC-2204-2	Dual Cavity	4"	\$734.00
TPRC-2205-1	Single Cavity	5"	\$293.00
TPRC-2205-2	Dual Cavity	5"	\$626.00
TPRC-2208-1	Single Cavity	8"	\$409.00
TPRC-2208-2	Dual Cavity	8"	\$861.00
TPRC-2210-1	Single Cavity	10"	\$463.00
TPRC-2210-2	Dual Cavity	10"	\$970.00

#### 400 - 512 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TPRC-4504-1	Single Cavity	4"	\$315.00
TPRC-4504-2	Dual Cavity	4"	\$672.00
TPRC-4504-3	Triple Cavity	4"	\$1,026.00
TPRC-4508-1	Single Cavity	8"	\$343.00
TPRC-4508-2	Dual Cavity	8"	\$734.00
TPRC-4508-3	Triple Cavity	8"	\$1,121.00
TPRC-4510-1	Single Cavity	10"	\$409.00
TPRC-4510-2	Dual Cavity	10"	\$861.00
TPRC-4510-3	Triple Cavity	10"	\$1,313.00

#### 800 - 960 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TPRC-8604-1	Single Cavity	4"	\$315.00
TPRC-8604-2	Dual Cavity	4"	\$672.00
TPRC-8604-3	Triple Cavity	4"	\$1,030.00
TPRC-8608-1	Single Cavity	8"	\$343.00
TPRC-8608-2	Dual Cavity	8"	\$734.00
TPRC-8608-3	Triple Cavity	8"	\$864.00

#### NOTES:

- 1) Prices include interconnect cables and mounting rails or panels for all models with more than one cavity.
- 2) N connectors provided standard. Specify UHF if required. 7-16 DIN available at extra cost.
- 3) All cavities are factory tuned to customer-specified frequencies.
- 4) 50 or 75 ohm cavities available on request.

# SECTION 5

## CAVITIES

### BANDPASS CAVITIES WITH ADJUSTABLE COUPLING

#### 30 - 40 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWPC-0305-1	Single Cavity	5"	\$794.00
TWPC-0305-2	Dual Cavity	5"	\$1,632.00
TWPC-0308-1	Single Cavity	8"	\$967.00
TWPC-0308-2	Dual Cavity	8"	\$1,977.00
TWPC-0310-1	Single Cavity	10"	\$1,129.00
TWPC-0310-2	Dual Cavity	10"	\$2,300.00

#### 40 - 50 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWPC-0405-1	Single Cavity	5"	\$637.00
TWPC-0405-2	Dual Cavity	5"	\$1,286.00
TWPC-0408-1	Single Cavity	8"	\$805.00
TWPC-0408-2	Dual Cavity	8"	\$1,654.00
TWPC-0410-1	Single Cavity	10"	\$967.00
TWPC-0410-2	Dual Cavity	10"	\$1,977.00

#### 66 - 88 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWPC-0705-1	Single Cavity	5"	\$397.00
TWPC-0705-2	Dual Cavity	5"	\$838.00
TWPC-0708-1	Single Cavity	8"	\$537.00
TWPC-0708-2	Dual Cavity	8"	\$1,120.00
TWPC-0710-1	Single Cavity	10"	\$624.00
TWPC-0710-2	Dual Cavity	10"	\$1,290.00

#### 88 - 108 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWPC-1005-1	Single Cavity	5"	\$300.00
TWPC-1005-2	Dual Cavity	5"	\$642.00
TWPC-1005-3	Triple Cavity	5"	\$989.00
TWPC-1008-1	Single Cavity	8"	\$430.00
TWPC-1008-2	Dual Cavity	8"	\$904.00

#### 118 - 148 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWPC-1405-1	Single Cavity	5"	\$300.00
TWPC-1405-2	Dual Cavity	5"	\$642.00
TWPC-1408-1	Single Cavity	8"	\$430.00
TWPC-1408-2	Dual Cavity	8"	\$904.00
TWPC-1410-1	Single Cavity	10"	\$485.00
TWPC-1410-2	Dual Cavity	10"	\$1,013.00
TBC-40	Upright Cabinet - Indoor		\$933.00

#### NOTES:

- 1) Prices include interconnect cables and mounting rails or panels for all models with more than one cavity.
- 2) N connectors provided standard. Specify UHF if required. 7-16 DIN available at extra cost.
- 3) All cavities are factory tuned to customer-specified frequencies.
- 4) 50 or 75 ohm cavities available on request.

#### 148 - 174 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWPC-1505-1	Single Cavity	5"	\$293.00
TWPC-1505-2	Dual Cavity	5"	\$626.00
TWPC-1505-3	Triple Cavity	5"	\$963.00
TWPC-1508-1	Single Cavity	8"	\$409.00
TWPC-1508-2	Dual Cavity	8"	\$861.00
TWPC-1508-3	Triple Cavity	8"	\$1,310.00
TWPC-1510-1	Single Cavity	10"	\$515.00
TWPC-1510-2	Dual Cavity	10"	\$1,074.00
TWPC-1510-3	Triple Cavity	10"	\$1,631.00

#### 200 - 300 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWPC-2205-1	Single Cavity	5"	\$293.00
TWPC-2205-2	Dual Cavity	5"	\$626.00
TWPC-2205-3	Triple Cavity	5"	\$964.00
TWPC-2208-1	Single Cavity	8"	\$409.00
TWPC-2208-2	Dual Cavity	8"	\$861.00
TWPC-2210-1	Single Cavity	10"	\$463.00
TWPC-2210-2	Dual Cavity	10"	\$970.00

#### 400 - 512 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWPC-4504-1	Single Cavity	4"	\$315.00
TWPC-4504-2	Dual Cavity	4"	\$672.00
TWPC-4504-3	Triple Cavity	4"	\$1,026.00
TWPC-4505-1	Single Cavity	5"	\$293.00
TWPC-4505-2	Dual Cavity	5"	\$626.00
TWPC-4505-3	Triple Cavity	5"	\$963.00
TWPC-4508-1	Single Cavity	8"	\$343.00
TWPC-4508-2	Dual Cavity	8"	\$734.00
TWPC-4508-3	Triple Cavity	8"	\$1,121.00
TWPC-4510-1	Single Cavity	10"	\$409.00
TWPC-4510-2	Dual Cavity	10"	\$861.00
TWPC-4510-3	Triple Cavity	10"	\$1,313.00

#### 800 - 960 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWPC-8604-1	Single Cavity	4"	\$315.00
TWPC-8604-2	Dual Cavity	4"	\$672.00
TWPC-8604-3	Triple Cavity	4"	\$1,030.00
TWPC-8608-1	Single Cavity	8"	\$343.00
TWPC-8608-2	Dual Cavity	8"	\$734.00

# SECTION 5

## CAVITIES

### NOTCH CAVITIES WITH ADJUSTABLE COUPLING

#### 30 - 40 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWNC-0305-1	Single Cavity	5"	\$794.00
TWNC-0305-2	Dual Cavity	5"	\$1,632.00
TWNC-0308-1	Single Cavity	8"	\$967.00
TWNC-0308-2	Dual Cavity	8"	\$1,977.00
TWNC-0310-1	Single Cavity	10"	\$1,129.00
TWNC-0310-2	Dual Cavity	10"	\$2,300.00

#### 40 - 50 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWNC-0405-1	Single Cavity	5"	\$637.00
TWNC-0405-2	Dual Cavity	5"	\$1,286.00
TWNC-0408-1	Single Cavity	8"	\$805.00
TWNC-0408-2	Dual Cavity	8"	\$1,654.00
TWNC-0410-1	Single Cavity	10"	\$967.00
TWNC-0410-2	Dual Cavity	10"	\$1,977.00

#### 66 - 88 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWNC-0705-1	Single Cavity	5"	\$397.00
TWNC-0705-2	Dual Cavity	5"	\$838.00
TWNC-0708-1	Single Cavity	8"	\$537.00
TWNC-0708-2	Dual Cavity	8"	\$1,120.00
TWNC-0710-1	Single Cavity	10"	\$624.00
TWNC-0710-2	Dual Cavity	10"	\$1,290.00

#### 88 - 108 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWNC-1005-1	Single Cavity	5"	\$300.00
TWNC-1005-2	Dual Cavity	5"	\$642.00
TWNC-1008-1	Single Cavity	8"	\$430.00
TWNC-1008-2	Dual Cavity	8"	\$904.00

#### 118 - 148 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWNC-1405-1	Single Cavity	5"	\$300.00
TWNC-1405-2	Dual Cavity	5"	\$642.00
TWNC-1408-1	Single Cavity	8"	\$430.00
TWNC-1408-2	Dual Cavity	8"	\$904.00
TWNC-1410-1	Single Cavity	10"	\$485.00
TWNC-1410-2	Dual Cavity	10"	\$1,013.00
TBC-40	Upright Cabinet - Indoor		\$933.00

#### 148 - 174 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWNC-1505-1	Single Cavity	5"	\$293.00
TWNC-1505-2	Dual Cavity	5"	\$626.00
TWNC-1505-3	Triple Cavity	5"	\$963.00
TWNC-1508-1	Single Cavity	8"	\$409.00
TWNC-1508-2	Dual Cavity	8"	\$861.00
TWNC-1508-3	Triple Cavity	8"	\$1,310.00
TWNC-1510-1	Single Cavity	10"	\$515.00
TWNC-1510-2	Dual Cavity	10"	\$1,074.00
TWNC-1510-3	Triple Cavity	10"	\$1,631.00

#### 200 - 300 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWNC-2204-1	Single Cavity	4"	\$380.00
TWNC-2204-2	Dual Cavity	4"	\$734.00
TWNC-2205-1	Single Cavity	5"	\$293.00
TWNC-2205-2	Dual Cavity	5"	\$626.00
TWNC-2208-1	Single Cavity	8"	\$409.00
TWNC-2208-2	Dual Cavity	8"	\$861.00

#### 400 - 512 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWNC-4504-1	Single Cavity	4"	\$311.00
TWNC-4504-2	Dual Cavity	4"	\$672.00
TWNC-4504-3	Triple Cavity	4"	\$1,026.00
TWNC-4505-1	Single Cavity	5"	\$293.00
TWNC-4505-2	Dual Cavity	5"	\$626.00
TWNC-4505-3	Triple Cavity	5"	\$963.00
TWNC-4508-1	Single Cavity	8"	\$343.00
TWNC-4508-2	Dual Cavity	8"	\$734.00
TWNC-4510-1	Single Cavity	10"	\$409.00
TWNC-4510-2	Dual Cavity	10"	\$861.00

#### 800 - 960 MHz

MODEL	DESCRIPTION	DIA.	LIST PRICE
TWNC-8604-1	Single Cavity	4"	\$315.00
TWNC-8604-2	Dual Cavity	4"	\$672.00
TWNC-8604-3	Triple Cavity	4"	\$1,030.00
TWNC-8608-1	Single Cavity	8"	\$343.00
TWNC-8608-2	Dual Cavity	8"	\$734.00

#### NOTES:

- 1) Prices include interconnect cables and mounting rails or panels for all models with more than one cavity.
- 2) N connectors provided standard. Specify UHF if required. 7-16 DIN available at extra cost.
- 3) All cavities are factory tuned to customer-specified frequencies.
- 4) 50 or 75 ohm cavities available on request.



# SECTION 5

## FILTERS

### TRANSMITTER AND RECEIVER FILTERS

#### LOW PASS

MODEL	DESCRIPTION	FREQ. RANGE	POWER WATTS	LIST PRICE
TLF-50	Low Pass Transmitter Filter	40-54 MHz	200	\$193.00
TLF-90	Low Pass Transmitter Filter	88-108 MHz	200	\$193.00
TLF-90H	Low Pass Transmitter Filter - HP	88-108 MHz	1000	\$318.00
TLF-150	Low Pass Transmitter Filter	144-174 MHz	400	\$193.00
TLF-450	Low Pass Transmitter Filter	406-512 MHz	400	\$193.00
TLF-860	Low Pass Transmitter Filter	806-960 MHz	400	\$193.00

#### HIGH PASS

MODEL	DESCRIPTION	FREQ. RANGE	POWER WATTS	LIST PRICE
THF-50	High Pass Transmitter Filter	40-54 MHz	10	\$193.00
THF-150	High Pass Transmitter Filter	144-174 MHz	10	\$193.00
THF-450	High Pass Transmitter Filter	406-512 MHz	10	\$193.00
THF-860	High Pass Transmitter Filter	806-960 MHz	10	\$193.00

### RECEIVER FILTERS

MODEL	DESCRIPTION	FREQUENCY	POWER WATTS	LIST PRICE
TWX50*	Receiver Crystal Filter, 50 MHz Band	Specify	0.001	\$1,301.00
TWX150*	Receiver Crystal Filter, 150 MHz Band	Specify	0.001	\$1,301.00

#### NOTES:

Specify N, UHF, or BNC connectors.

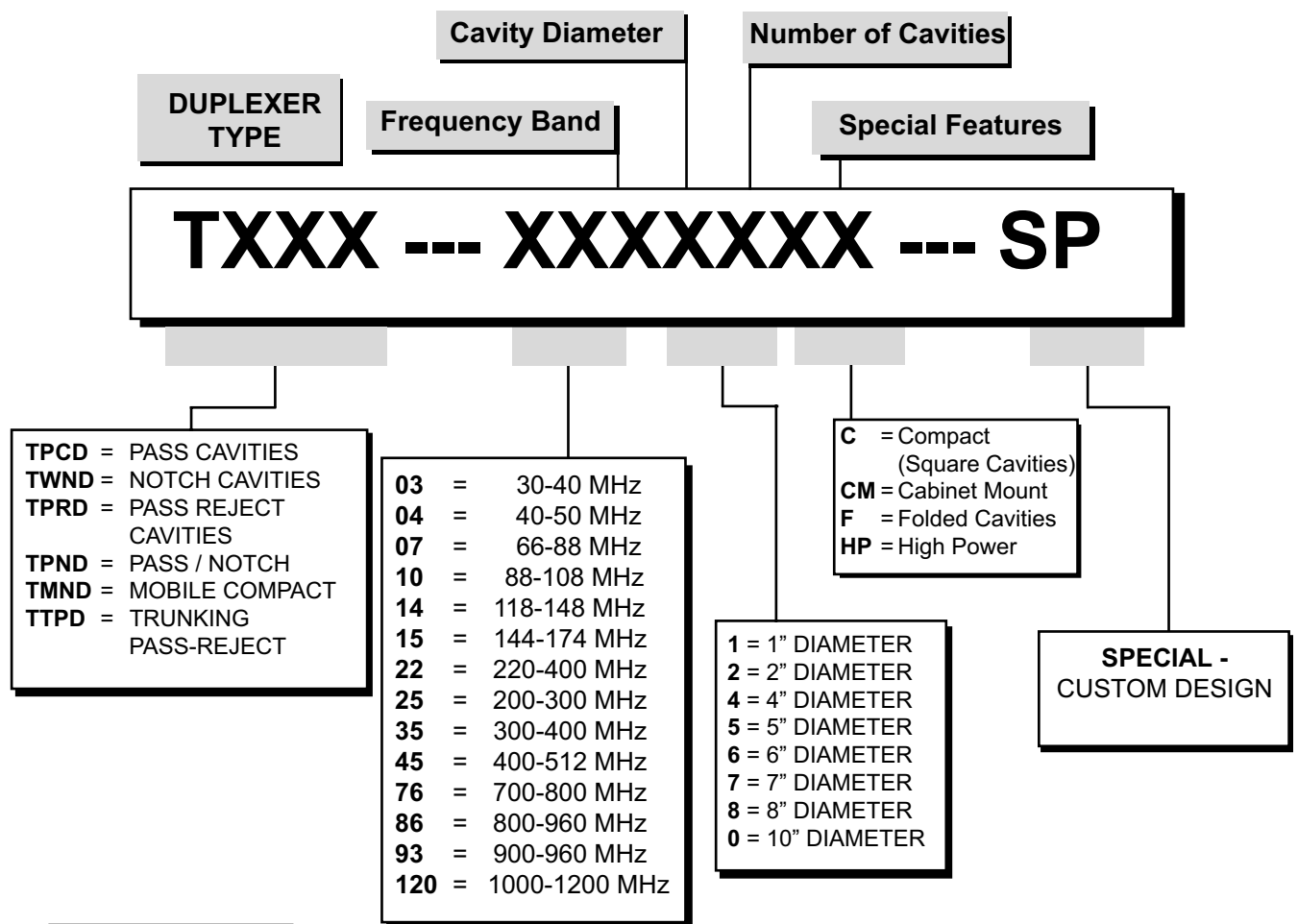
Contact factory for quotation on filters outside listed frequency ranges.

\* Crystal filters normally require more time to manufacture than other system components.

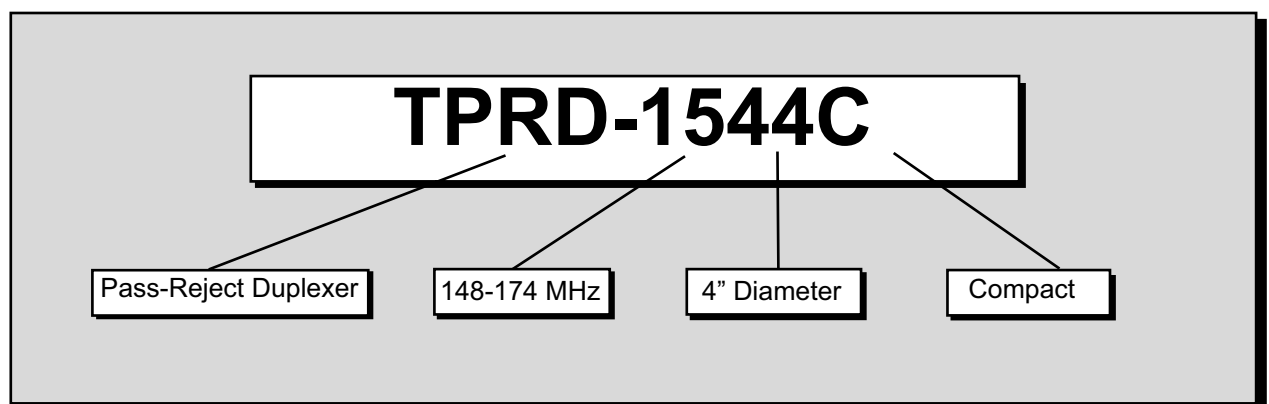
System delivery time may be extended if crystal filters are ordered as part of a system.

Please contact the factory for assistance with delivery schedules.

# DUPLEXER MODEL NUMBER NOMENCLATURE



## EXAMPLE:



## FOLDED CAVITIES:

Special coaxial cavities which are about 3/4 as long as a standard 1/4-wave cavity.

Folded cavities are required where cavities are mounted on a 19" wide panel.

Add 10% to standard pricing for folded cavities. Consult factory for special configurations.

# SECTION 6

## DUPLEXERS

### BASE STATION DUPLEXERS 30-430 MHz

Prices include interconnect cables and mounting rails or panels for all models with more than one cavity. Specify N, UHF, or 7-16 DIN connectors. All cavities are factory tuned. Specify pass and reject frequencies.

MODEL	DESCRIPTION	CAVITIES DIA.	NO.	MINIMUM SPACING	LIST PRICE
TPRD-0354	30-40 MHz Pass-Reject Base Station Duplexer	5"	4	600 KHz	\$3,230.00
TPRD-0356	30-40 MHz Pass-Reject Base Station Duplexer	5"	6	300 KHz	\$4,841.00
TPRD-0384	30-40 MHz Pass-Reject Base Station Duplexer	8"	4	300 KHz	\$3,916.00
TPRD-0304	30-40 MHz Pass-Reject Base Station Duplexer	10"	4	275 KHz	\$4,560.00
TPRD-0454	40-50 MHz Pass-Reject Base Station Duplexer	5"	4	400 KHz	\$2,587.00
TPRD-0456	40-50 MHz Pass-Reject Base Station Duplexer	5"	6	300 KHz	\$3,876.00
TPRD-0484	40-50 MHz Pass-Reject Base Station Duplexer	8"	4	300 KHz	\$3,274.00
TPRD-0404	40-50 MHz Pass-Reject Base Station Duplexer	10"	4	275 KHz	\$3,936.00
TPRD-0754	60-88 MHz Pass-Reject Base Station Duplexer	5"	4	600 KHz	\$1,642.00
TPRD-0756	60-88 MHz Pass-Reject Base Station Duplexer	5"	6	300 KHz	\$2,361.00
TPRD-0784	60-88 MHz Pass-Reject Base Station Duplexer	8"	4	300 KHz	\$2,200.00
TPRD-0704	60-88 MHz Pass-Reject Base Station Duplexer	10"	4	275 KHz	\$2,541.00
TPRD-1344C	118-136 MHz Compact Pass Reject Base Duplexer	4"	4	600 KHz	\$1,475.00
TPRD-1444C	135-151 MHz Compact Pass Reject Base Duplexer	4"	4	600 KHz	\$1,411.00
TPRD-1444CM	135-151 MHz Compact Pass Reject Base Duplexer	4"	4	600 KHz	\$1,538.00
TPRD-1446C	135-151 MHz Compact Pass Reject Base Duplexer	4"	6	500 KHz	\$2,115.00
TPRD-1454	118-148 MHz Pass-Reject Base Station Duplexer	5"	4	600 KHz	\$1,234.00
TPRD-1484	118-148 MHz Pass-Reject Base Station Duplexer	8"	4	500 KHz	\$1,803.00
TPRD-1486	118-148 MHz Pass-Reject Base Station Duplexer	8"	6	300 KHz	\$2,705.00
TPRD-1544C	148-174 MHz Compact Pass Reject Base Duplexer	4"	4	600 KHz	\$1,411.00
TPRD-1544CM	148-174 MHz Compact Pass Reject Base Duplexer	4"	4	600 KHz	\$1,538.00
TPRD-1544F	148-174 MHz Pass-Reject Base Station Duplexer	4"	4	2.0 MHz	\$1,330.00
TPRD-1546C	148-174 MHz Compact Pass Reject Base Duplexer	4"	6	500 KHz	\$2,115.00
TPRD-1554	148-174 MHz Pass-Reject Base Station Duplexer	5"	4	600 KHz	\$1,234.00
TPRD-1556	148-174 MHz Pass-Reject Base Station Duplexer	5"	6	400 KHz	\$1,998.00
TPRD-1584	148-174 MHz Pass-Reject Base Station Duplexer	8"	4	500 KHz	\$1,803.00
TPRD-1586	148-174 MHz Pass-Reject Base Station Duplexer	8"	6	300 KHz	\$2,705.00
TPCD-1553	148-174 MHz Band-Pass Base Station Duplexer	5"	3	5.0 MHz	\$936.00
TPCD-1554	148-174 MHz Band-Pass Base Station Duplexer	5"	4	4.0 MHz	\$1,234.00
TPCD-1556	148-174 MHz Band-Pass Base Station Duplexer	5"	6	2.0 MHz	\$1,866.00
TPRD-2254	200-300 MHz Pass-Reject Base Station Duplexer	5"	4	1.2 MHz	\$1,234.00
TPRD-2284	200-300 MHz Pass-Reject Base Station Duplexer	8"	4	1.0 MHz	\$1,803.00
TPRD-22612	200-300 MHz Pass-Reject Base Station Duplexer	6"	12	400 KHz	\$5,981.00
TPRD-3544	300-400 MHz Pass-Reject Base Station Duplexer	4"	4	5.0 MHz	\$1,367.00
TPRD-3546	300-400 MHz Pass-Reject Base Station Duplexer	4"	6	5.0 MHz	\$1,768.00
TPRD-3844	370-430 MHz Pass-Reject Base Station Duplexer	4"	4	5.0 MHz	\$1,367.00
TPRD-3846	370-430 MHz Pass-Reject Base Station Duplexer	4"	6	5.0 MHz	\$1,768.00

# SECTION 6

## DUPLEXERS

### BASE STATION DUPLEXERS 400-1200 MHz

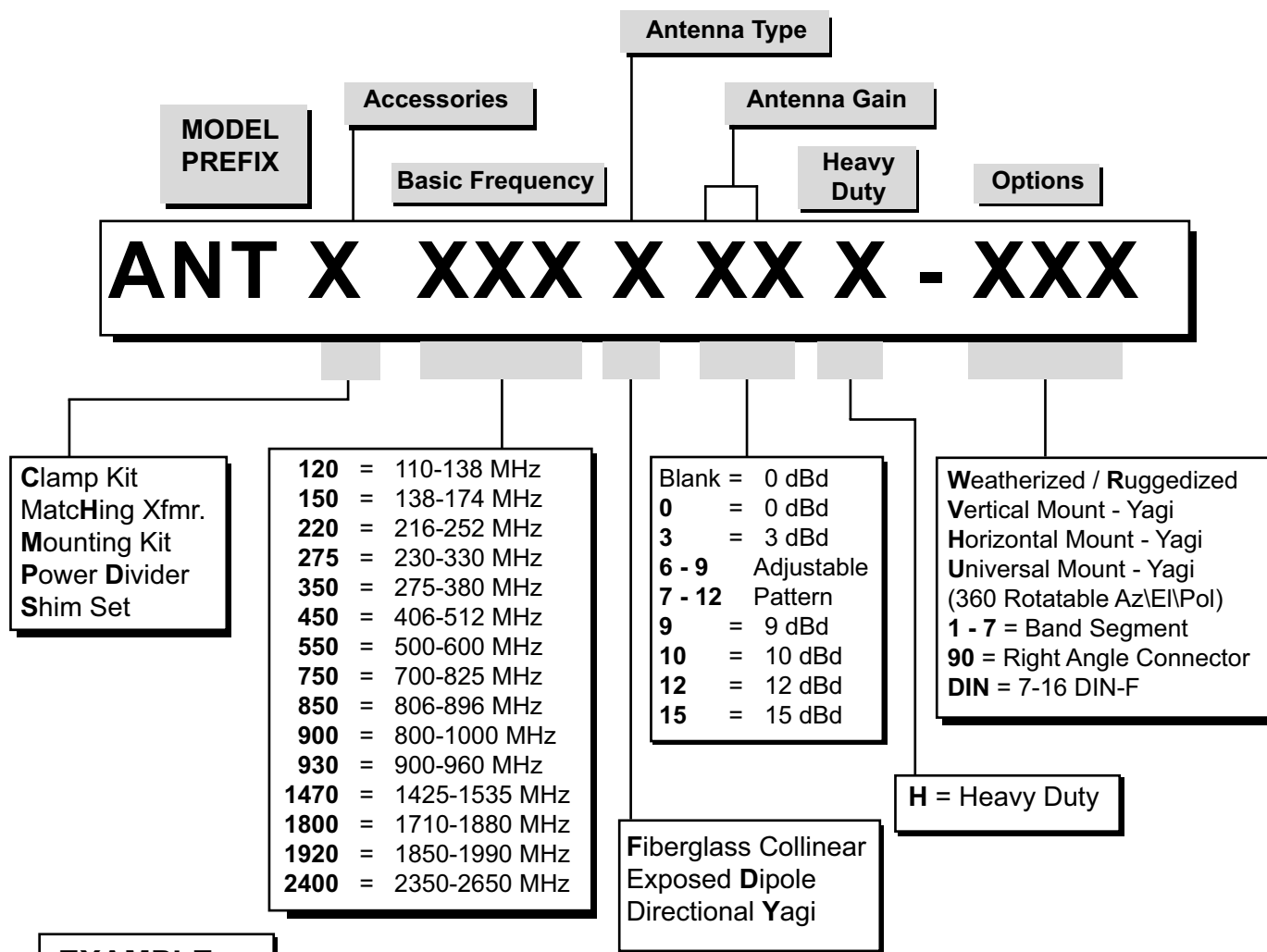
MODEL	DESCRIPTION	CAVITIES DIA.	NO.	MINIMUM SPACING	LIST PRICE
TPRD-4544	400-512 MHz Pass-Reject Base Station Duplexer	4"	4	5.0 MHz	\$1,367.00
TPRD-4744	470-512 MHz Pass-Reject Base Station Duplexer	4"	4	3.0 MHz	\$1,367.00
TPRD-4546	400-512 MHz Pass-Reject Base Station Duplexer	4"	6	5.0 MHz	\$1,998.00
TPCD-4554	400-512 MHz Band-Pass Base Station Duplexer	5"	4	5.0 MHz	\$1,234.00
TPCD-4556	400-512 MHz Band-Pass Base Station Duplexer	5"	6	5.0 MHz	\$1,866.00
TPRD-8642	800-960 MHz Pass-Reject Base Station Duplexer	4"	2	5.0 MHz	\$771.00
TPRD-8644	800-960 MHz Band-Reject Duplexer	4"	4	5.0 MHz	\$1,503.00
TTPD-8642	800-960 MHz Pass-Reject Base Station Duplexer	4"	2	45.0 MHz	\$771.00
TTPD-8644	800-960 MHz Band-Reject Trunked Duplexer	4"	4	45.0 MHz	\$1,503.00
TPCD-8626	800-960 MHz Band-Reject Comblin Duplexer	2"	6	45.0 MHz	\$1,503.00
TPCD-8626HP	800-960 MHz 500 Watt Comblin Duplexer	2"	6	45.0 MHz	\$2,153.00
TPCD-8926	824-845 MHz Band-Pass Cellular Duplexer	2"	6	45.0 MHz	\$1,503.00
TPCD-8926B	824-835 MHz Band-Pass Cellular Duplexer	2"	6	45.0 MHz	\$1,503.00
TPCD-8928	824-849 MHz Band-Pass Cellular Duplexer	2"	8	45.0 MHz	\$1,839.00
TPRD-9044	900-960 MHz Pass-Reject Base Station Duplexer	4"	4	3.6 MHz	\$1,503.00
TPRD-12044	1000-1200 MHz Pass-Reject Base Station Duplexer	4"	4	6.0 MHz	\$1,503.00

### COMPACT MOBILE DUPLEXERS

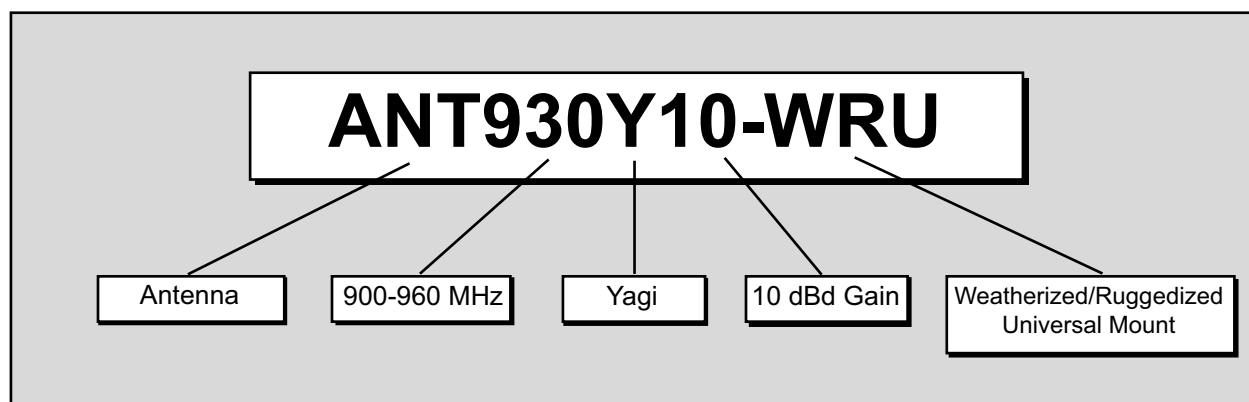
BNC Female connectors standard. Specify N-Female if required.

MODEL	DESCRIPTION	CAVITIES DIA.	NO.	TX-RX SEP.	LIST PRICE
TMND-0716	70-78 MHz Compact Mobile Band-Reject Duplexer	1"	6	4 MHz	\$487.00
TMND-0816	77-85 MHz Compact Mobile Band-Reject Duplexer	1"	6	4 MHz	\$487.00
TMND-1516	148-157 MHz Compact Mobile Band-Reject Duplexer	1"	6	4 MHz	\$438.00
TMND-1616	156-165 MHz Compact Mobile Band-Reject Duplexer	1"	6	4 MHz	\$438.00
TMND-1716	164-174 MHz Compact Mobile Band-Reject Duplexer	1"	6	4 MHz	\$438.00
TMND-4516	450-460 MHz Compact Mobile Band-Reject Duplexer	1"	6	5 MHz	\$420.00
TMND-4616	460-470 MHz Compact Mobile Band-Reject Duplexer	1"	6	5 MHz	\$420.00
TMND-4716	470-480 MHz Compact Mobile Band-Reject Duplexer	1"	6	5 MHz	\$420.00
TMND-4816	480-490 MHz Compact Mobile Band-Reject Duplexer	1"	6	5 MHz	\$420.00
TMND-4916	490-500 MHz Compact Mobile Band-Reject Duplexer	1"	6	5 MHz	\$420.00
TMND-5016	500-512 MHz Compact Mobile Band-Reject Duplexer	1"	6	5 MHz	\$420.00
TMND-8616	806-865 MHz Compact Mobile Band-Reject Duplexer	1"	6	45 MHz	\$420.00
TMND-9216	928-960 MHz Compact Mobile Band-Reject Duplexer	1"	6	24 MHz	\$420.00

# ANTENNA MODEL NUMBER NOMENCLATURE



## EXAMPLE:



**NOTE:** Mobile duplexers ship standard with BNC connectors. Specify type N if required.

**TELEWAVE, INC.** 660 Giguere Court San Jose, CA 95133 Toll Free: **1-800-331-3396** Direct: 408-929-4400 Fax: 408-929-4080

<http://www.telewave.com>

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Email: [sales@telewave.com](mailto:sales@telewave.com)

# SECTION 7

## ANTENNAS

### BASE STATION ANTENNAS

#### FIBERGLASS COLLINEAR 118-960 MHz OMNI PATTERNS

Standard connector is a recessed N-Female. 7-16 DIN\* available.

Each antenna includes mounting clamps and a 24" N-Male to N-Male pigtail.

MODEL	FREQUENCY RANGE	GAIN	INSTALLED HEIGHT	SHIP WEIGHT	UPS	LIST PRICE
ANT125F2	118-136 MHz	2.5 dBd	77"	17 lb	Y	\$649.00
ANT140F2	135-165 MHz	2.5 dBd	66"	17 lb	Y	\$638.00
ANT150F2	148-174 MHz	2.5 dBd	60"	16 lb	Y	\$633.00
ANT150F6-1	138-144 MHz	6 dBd	256"	55 lb	N	\$968.00
ANT150F6-2	144-151 MHz	6 dBd	256"	55 lb	N	\$968.00
ANT150F6-3	150-157 MHz	6 dBd	244"	50 lb	N	\$968.00
ANT150F6-4	156-164 MHz	6 dBd	244"	50 lb	N	\$968.00
ANT150F6-5	158-166 MHz	6 dBd	244"	50 lb	N	\$968.00
ANT150F6-6	161-168 MHz	6 dBd	244"	50 lb	N	\$968.00
ANT150F6-7	167-174 MHz	6 dBd	244"	50 lb	N	\$968.00
ANT220F2	195-260 MHz	2.5 dBd	46"	14 lb	Y	\$611.00
ANT220F6	216-225 MHz	6 dBd	171"	40 lb	N	\$980.00
ANT355F6	340-370 MHz	6 dBd	126"	30 lb	N	\$952.00
ANT385F6	370-401 MHz	6 dBd	115"	35 lb	N	\$952.00
ANT400F2	360-450 MHz	2.5 dBd	46"	7 lb	Y	\$495.00
ANT415F6	405-440 MHz	6 dBd	101"	25 lb	Y	\$868.00
ANT415F8	395-436 MHz	8 dBd	240"	55 lb	N	\$1,239.00
ANT450F2	420-480 MHz	2.5 dBd	44"	7 lb	Y	\$495.00
ANT480F2	450-512 MHz	2.5 dBd	43"	7 lb	Y	\$495.00
ANT450F6	445-480 MHz	6 dBd	94"	24 lb	Y	\$784.00
ANT450F10	430-475 MHz	10 dBd	244"	50 lb	N	\$1,213.00
ANT500F6	470-512 MHz	6 dBd	89"	14 lb	Y	\$858.00
ANT500F10	470-512 MHz	10 dBd	244"	50 lb	N	\$1,213.00
ANT770F2	734-806 MHz	2.5 dBd	38"	9 lb	Y	\$468.00
ANT770F6	734-806 MHz	6 dBd	56"	11 lb	Y	\$861.00
ANT850F2	806-896 MHz	2.5 dBd	32"	6 lb	Y	\$468.00
ANT850F6	806-896 MHz	6 dBd	56"	11 lb	Y	\$861.00
ANT850F10	806-896 MHz	10 dBd	88"	40 lb	Y	\$1,507.00
ANT900F2	880-960 MHz	2.5 dBd	32"	6 lb	Y	\$468.00
ANT940F6	870-965 MHz	6 dBd	56"	8 lb	Y	\$861.00
ANT940F10	870-965 MHz	10 dBd	82"	12 lb	Y	\$1,507.00
ANT960F0-1	900-930 MHz	2 dBd	15"	2 lb	Y	\$73.00
ANT960F0-2	920-960 MHz	2 dBd	15"	2 lb	Y	\$73.00

\* Add \$123.00 for 7-16 DIN

Y = UPS shippable  
N = Not UPS shippable

# SECTION 7

## ANTENNAS

### BASE STATION ANTENNAS

#### EXPOSED DIPOLE ARRAYS 66-512 MHz ADJUSTABLE PATTERNS

Standard connector is N-Male on a pigtail. 7-16 DIN\* available. All dipoles and arrays are field-configurable and UPS shippable, and include clamps for mounting to an existing mast or other support. 2, 4, and 8 bay arrays can be ordered with up to 15 degrees of electrical uptilt or downtilt.

MODEL	FREQUENCY RANGE	BAYS	GAIN	INSTALLED HEIGHT	SHIP WEIGHT	LIST PRICE
ANT75D	66-88 MHz	1	1 to 2.6 dBd	68"	15 lb	\$730.00
ANT90D	88-108 MHz	1	1 to 2.6 dBd	56"	12 lb	\$700.00
ANT120D	110-138 MHz	1	1 to 2.6 dBd	45"	9 lb	\$325.00
ANT150D	138-174 MHz	1	1 to 2.6 dBd	36"	8 lb	\$304.00
ANT150D3	138-174 MHz	2	3 to 6 dBd	89"	21 lb	\$617.00
ANT150D6-9	138-174 MHz	4	6 to 9 dBd	195"	34 lb	\$1,055.00
ANT150D7-12	138-174 MHz	8	7 to 12 dBd	480"	68 lb	\$2,109.00
ANT220D	216-252 MHz	1	1 to 2.6 dBd	30"	8 lb	\$323.00
ANT220D3	216-252 MHz	2	3 to 6 dBd	70"	20 lb	\$549.00
ANT220D6-9	216-252 MHz	4	6 to 9 dBd	150"	32 lb	\$1,085.00
ANT220D7-12	216-252 MHz	8	7 to 12 dBd	300"	64 lb	\$2,167.00
ANT275D	230-330 MHz	1	1 to 2.6 dBd	26"	8 lb	\$333.00
ANT275D3	230-330 MHz	2	3 to 6 dBd	60"	18 lb	\$559.00
ANT275D6-9	230-330 MHz	4	6 to 9 dBd	110"	30 lb	\$1,067.00
ANT275D7-12	230-330 MHz	8	7 to 12 dBd	220"	60 lb	\$2,134.00
ANT350D	300-360 MHz	1	1 to 2.6 dBd	17"	7 lb	\$323.00
ANT350D3	300-360 MHz	2	3 to 6 dBd	40"	16 lb	\$549.00
ANT350D6-9	300-360 MHz	4	6 to 9 dBd	86"	27 lb	\$946.00
ANT350D7-12	300-360 MHz	8	7 to 12 dBd	178"	54 lb	\$1,894.00
ANT375D	345-405 MHz	1	1 to 2.6 dBd	15"	7 lb	\$240.00
ANT375D3	345-405 MHz	2	3 to 6 dBd	34"	15 lb	\$565.00
ANT375D6-9	345-405 MHz	4	6 to 9 dBd	77"	25 lb	\$946.00
ANT375D7-12	345-405 MHz	8	7 to 12 dBd	161"	50 lb	\$1,894.00
ANT400D	360-450 MHz	1	1 to 2.6 dBd	14"	7 lb	\$240.00
ANT400D3	360-450 MHz	2	3 to 6 dBd	36"	15 lb	\$565.00
ANT400D6-9	360-450 MHz	4	6 to 9 dBd	80"	24 lb	\$946.00
ANT400D7-12	360-450 MHz	8	7 to 12 dBd	168"	48 lb	\$1,894.00
ANT450D	406-512 MHz	1	1 to 2.6 dBd	18"	6 lb	\$240.00
ANT450D3	406-512 MHz	2	3 to 6 dBd	38"	19 lb	\$565.00
ANT450D6-9	406-512 MHz	4	6 to 9 dBd	78"	21 lb	\$946.00
ANT450D7-12	406-512 MHz	8	7 to 12 dBd	156"	42 lb	\$1,894.00

\* Add \$51.00 for 7-16 DIN.

# SECTION 7

## ANTENNAS

### BASE STATION ANTENNAS

#### EXPOSED DIPOLE ARRAYS 470-1000 MHz ADJUSTABLE PATTERNS

Standard connector is N-Male on a pigtail. 7-16 DIN\* available. All dipoles and arrays are field-configurable and UPS shippable, and include clamps for mounting to an existing mast or other support. 2, 4, and 8 bay arrays can be ordered with up to 15 degrees of electrical uptilt or downtilt.

MODEL	FREQUENCY RANGE	BAYS	GAIN	INSTALLED HEIGHT	SHIP WEIGHT	LIST PRICE
ANT500D	470-550 MHz	1	1 to 2.6 dBd	17"	5 lb	\$240.00
ANT500D3	470-550 MHz	2	3 to 6 dBd	43"	18 lb	\$565.00
ANT500D6-9	470-550 MHz	4	6 to 9 dBd	90"	22 lb	\$946.00
ANT500D7-12	470-550 MHz	8	7 to 12 dBd	180"	44 lb	\$1,894.00
ANT550D	500-600 MHz	1	1 to 2.6 dBd	16"	5 lb	\$240.00
ANT550D3	500-600 MHz	2	3 to 6 dBd	42"	16 lb	\$565.00
ANT550D6-9	500-600 MHz	4	6 to 9 dBd	87"	22 lb	\$946.00
ANT550D7-12	500-600 MHz	8	7 to 12 dBd	174"	44 lb	\$1,894.00
ANT750D	700-825 MHz	1	1 to 2.6 dBd	27"	3 lb	\$254.00
ANT750D3	700-825 MHz	2	3 to 6 dBd	48"	6 lb	\$571.00
ANT750D6-9	700-825 MHz	4	6 to 9 dBd	95"	12 lb	\$956.00
ANT900D	800-1000 MHz	1	1 to 2.6 dBd	10"	5 lb	\$267.00
ANT900D3	800-1000 MHz	2	3 to 6 dBd	21"	10 lb	\$579.00
ANT900D6-9	800-1000 MHz	4	6 to 9 dBd	43"	20 lb	\$985.00
ANT900D7-12	800-1000 MHz	8	7 to 12 dBd	86"	40 lb	\$1,970.00

\* Add \$51.00 for 7-16 DIN.

**NOTE:** ANT 900x supplied with N-Female on power divider.



# SECTION 7

## ANTENNAS

### BASE STATION ANTENNAS

#### DIRECTIONAL YAGI 138-2500 MHz

Yagi antennas ship standard with a vertical mounting plate. Specify **-H** = Horizontal, or **-U** = Universal.  
All models are UPS shippable. Standard connector N-Female. 7-16 DIN\* available.

MODEL	FREQUENCY RANGE	GAIN	LENGTH	SHIP WEIGHT	LIST PRICE
ANT145Y5-WR (H)	138-150 MHz	5 dBd	38"	10 lb	\$545.00
ANT150Y7-WR (H)	148-174 MHz	5 dBd	38"	10 lb	\$525.00
ANT150Y10H <sup>3</sup>	144-174 MHz	10 dBd	96"	35 lb	\$1,060.00
ANT220Y7-WR (H)	216-240 MHz	5 dBd	30"	5 lb	\$382.00
ANT230Y10H <sup>3</sup>	220-235 MHz	10 dBd	97"	38 lb	\$1,060.00
ANT390Y7-WR (H) (U) <sup>1</sup>	380-400 MHz	7 dBd	26"	16 lb	\$382.00
ANT410Y10-WR (H) (U) <sup>1</sup>	405-420 MHz	10 dBd	44"	5 lb	\$348.00
ANT420Y10-WR (H) (U) <sup>1</sup>	410-450 MHz	10 dBd	44"	5 lb	\$348.00
ANT430Y10-WR (H) (U) <sup>1</sup>	415-450 MHz	10 dBd	44"	5 lb	\$348.00
ANT440Y10-WR (H) (U) <sup>1</sup>	438-455 MHz	10 dBd	44"	5 lb	\$348.00
ANT450Y5-WR (H) (U) <sup>1</sup>	450-470 MHz	5 dBd	24"	5 lb	\$267.00
ANT450Y7-WR (H) (U) <sup>1</sup>	450-470 MHz	7 dBd	29"	4 lb	\$299.00
ANT450Y10-WR (H) (U) <sup>1</sup>	450-470 MHz	10 dBd	44"	5 lb	\$348.00
ANT490Y10-WR (H) (U) <sup>1</sup>	470-500 MHz	10 dBd	44"	5 lb	\$348.00
ANT500Y10-WR (H) (U) <sup>1</sup>	485-512 MHz	10 dBd	44"	5 lb	\$348.00
ANT750Y5-WR (H) (U) <sup>2</sup>	734-806 MHz	5 dBd	13"	3 lb	\$350.00
ANT830Y10-WR (H) (U) <sup>2</sup>	800-870 MHz	10 dBd	24"	3 lb	\$259.00
ANT850Y10-WR (H) (U) <sup>2</sup>	822-900 MHz	10 dBd	24"	3 lb	\$259.00
ANT930Y10-WR (H) (U) <sup>2</sup>	885-975 MHz	10 dBd	28"	3 lb	\$234.00
ANT930Y12-WR (H) (U) <sup>1</sup>	880-960 MHz	12 dBd	44"	18 lb	\$629.00
ANT940Y10-WR (H) (U) <sup>2</sup>	900-960 MHz	10 dBd	23"	3 lb	\$222.00
ANT1470Y12-WR (U) <sup>2</sup>	1425-1535 MHz	12 dBd	26.5"	6 lb	\$242.00
ANT1800Y10-WR (U) <sup>2</sup>	1710-1880 MHz	10 dBd	19"	6 lb	\$226.00
ANT1920Y9-WR (U) <sup>2</sup>	1850-1990 MHz	9.3 dBd	10"	5 lb	\$209.00
ANT1920Y12-WR (U) <sup>2</sup>	1850-1990 MHz	12 dBd	23"	6 lb	\$309.00
ANT2045Y12-WR (U) <sup>2</sup>	1920-2230 MHz	12 dBd	23"	6 lb	\$309.00
ANT2400Y12-WR (U) <sup>2</sup>	2400-2500 MHz	12 dBd	16"	6 lb	\$309.00

**NOTES:** <sup>(1)</sup> Add \$55.00 for Universal Mount.

<sup>(2)</sup> Add \$34.00 for Universal Mount.  
Antennas from 1470-2500 MHz  
are shipped with a U-clamp which  
allows V or H polarization.

<sup>(3)</sup> H-series antennas include a massive  
rotatable mount which allows V or H.  
Universal option not available.

\* Add \$51.00 for 7-16 DIN.

# SECTION 7

## ANTENNAS

### ANTENNA MOUNTING HARDWARE

MODEL	DESCRIPTION	SHIP WEIGHT	UPS	LIST PRICE
ANTM010	10 foot 1.5" dia. Schd. 40 Galvanized Steel mast (1.9" O.D.)	28 lb	Y	\$84.00
ANTM020	21 foot 2" dia. Schd. 40 Galvanized Steel mast (2.375" O.D.)	77 lb	N	\$188.00
ANTS420	Mast clamps shim set (2) for Dipoles on small tower legs	1 lb	Y	\$17.00
ANTM431	Mast top support bracket for Dipoles	9 lb	Y	\$156.00
ANTM432	Insulated antenna top support for Collinears	4 lb	Y	\$156.00
ANTM433	Antenna side mount kit for Collinear or Dipole	12 lb	Y	\$205.00
ANTM434	Adjustable side mount stand-off clamp kit	57 lb	Y	\$613.00
ANTM434-M	Adjustable stand-off side mount kit with support booms	97 lb	N	\$1,117.00
ANTM435	Single side mount assembly	29 lb	Y	\$254.00
ANTC482	Dual Mounting clamp for Collinears - Center clamps not welded	12 lb	Y	\$134.00
ANTC483	Dual Mounting clamp kit for Fiberglass Collinear antennas	12 lb	Y	\$134.00
ANTC483SS	ANTC483 Clamp Kit - Stainless Steel	12 lb	Y	\$424.00
ANTC484	Single mounting clamp for side mount antennas	5 lb	Y	\$44.00
ANTC485	Dual U-bolt clamp set for F2 Collinear antennas	3 lb	Y	\$51.00
ANTM400H	Horizontal mount for 150, 220 & 400Y10-WR Yagi antennas	2 lb	Y	\$51.00
ANTM940H	Horizontal mount for 800 & 900Y10-WR Yagi antennas	2 lb	Y	\$43.00

**Y = UPS shippable**  
**N = Not UPS shippable**

# SECTION 7

## POWER DIVIDERS

### POWER DIVIDERS 500 WATTS N-FEMALE or 7-16 DIN

Frequency range shown is 1.5:1 VSWR bandwidth. Typical response is <1.2:1 at band center.

All power dividers are UPS shippable. 5-way and 6-way dividers are available as a special order.

DESCRIPTION	N FEMALE	SHIP WT	LIST PRICE	7-16 DIN	SHIP WT	LIST PRICE
2-Way Power Divider 65-110 MHz	ANTPD208	7 lb.	\$156.00	ANTPD208D	7.5 lb.	\$206.00
3-Way Power Divider 65-110 MHz	ANTPD308	7 lb.	\$219.00	ANTPD308D	7.5 lb.	\$286.00
4-Way Power Divider 65-110 MHz	ANTPD408	7 lb.	\$239.00	ANTPD408D	7.5 lb.	\$321.00
2-Way Power Divider 90-210 MHz	ANTPD21	4.5 lb.	\$135.00	ANTPD21D	5 lb.	\$184.00
3-Way Power Divider 90-210 MHz	ANTPD31	4.5 lb.	\$191.00	ANTPD31D	5 lb.	\$256.00
4-Way Power Divider 90-210 MHz	ANTPD41	4.5 lb.	\$204.00	ANTPD41D	5 lb.	\$283.00
2-Way Power Divider 180-250 MHz	ANTPD22	3.5 lb.	\$135.00	ANTPD22D	4 lb.	\$184.00
3-Way Power Divider 180-250 MHz	ANTPD32	3.5 lb.	\$191.00	ANTPD32D	4 lb.	\$256.00
4-Way Power Divider 180-250 MHz	ANTPD42	3.5 lb.	\$204.00	ANTPD42D	4 lb.	\$283.00
2-Way Power Divider 250-450 MHz	ANTPD23	3 lb.	\$135.00	ANTPD23D	3.5 lb.	\$184.00
3-Way Power Divider 250-450 MHz	ANTPD33	3 lb.	\$191.00	ANTPD33D	3.5 lb.	\$256.00
4-Way Power Divider 250-450 MHz	ANTPD43	3 lb.	\$204.00	ANTPD43D	3.5 lb.	\$283.00
2-Way Power Divider 350-600 MHz	ANTPD24	2 lb.	\$123.00	ANTPD24D	3 lb.	\$172.00
3-Way Power Divider 350-600 MHz	ANTPD34	2 lb.	\$184.00	ANTPD34D	3 lb.	\$250.00
4-Way Power Divider 350-600 MHz	ANTPD44	2 lb.	\$198.00	ANTPD44D	3 lb.	\$278.00
2-Way Power Divider 675-850 MHz	ANTPD27	1.5 lb.	\$123.00	ANTPD27D	2.5 lb.	\$172.00
3-Way Power Divider 675-850 MHz	ANTPD37	1.5 lb.	\$184.00	ANTPD37D	2.5 lb.	\$250.00
4-Way Power Divider 675-850 MHz	ANTPD47	1.5 lb.	\$198.00	ANTPD47D	2.5 lb.	\$278.00
2-Way Power Divider 760-920 MHz	ANTPD28	1.5 lb.	\$123.00	ANTPD28D	2.5 lb.	\$172.00
3-Way Power Divider 760-920 MHz	ANTPD38	1.5 lb.	\$184.00	ANTPD38D	2.5 lb.	\$250.00
4-Way Power Divider 760-920 MHz	ANTPD48	1.5 lb.	\$198.00	ANTPD48D	2.5 lb.	\$278.00
2-Way Power Divider 900-1100 MHz	ANTPD29	1.5 lb.	\$123.00	ANTPD29D	2.5 lb.	\$172.00
3-Way Power Divider 900-1100 MHz	ANTPD39	1.5 lb.	\$184.00	ANTPD39D	2.5 lb.	\$250.00
4-Way Power Divider 900-1100 MHz	ANTPD49	1.5 lb.	\$198.00	ANTPD49D	2.5 lb.	\$278.00
2-Way Power Divider 1350-1600 MHz	ANTPD214	1 lb.	\$123.00	ANTPD214D	2 lb.	\$172.00
3-Way Power Divider 1350-1600 MHz	ANTPD314	1 lb.	\$184.00	ANTPD314D	2 lb.	\$250.00
4-Way Power Divider 1350-1600 MHz	ANTPD414	1 lb.	\$198.00	ANTPD414D	2 lb.	\$278.00
2-Way Power Divider 1700-2050 MHz	ANTPD218	1 lb.	\$123.00	ANTPD218D	2 lb.	\$172.00
3-Way Power Divider 1700-2050 MHz	ANTPD318	1 lb.	\$184.00	ANTPD318D	2 lb.	\$250.00
4-Way Power Divider 1700-2050 MHz	ANTPD418	1 lb.	\$198.00	ANTPD418D	2 lb.	\$278.00
2-Way Power Divider 2000-2500 MHz	ANTPD224	1 lb.	\$123.00	ANTPD224D	2 lb.	\$172.00
3-Way Power Divider 2000-2500 MHz	ANTPD324	1 lb.	\$184.00	ANTPD324D	2 lb.	\$250.00
4-Way Power Divider 2000-2500 MHz	ANTPD424	1 lb.	\$198.00	ANTPD424D	2 lb.	\$278.00

# SECTION 7

## COUPLERS / JUNCTIONS / EZ-MATCH

### CROSSBAND COUPLERS

Standard connectors are N-Female. DIN-F optional.

MODEL	DESCRIPTION	FREQ. RANGE	TX POWER	LIST PRICE
TS-1545	Crossband Coupler	132-174 & 406-470 MHz	150 Watts	\$309.00
TS-1545H	Crossband Coupler	132-174 & 406-470 MHz	400 Watts	\$377.00
TS-1546	Crossband Coupler	132-174 & 450-512 MHz	150 Watts	\$309.00
TS-1546H	Crossband Coupler	132-174 & 450-512 MHz	400 Watts	\$377.00
TS-1580	Crossband Coupler	132-174 & 806-902 MHz	150 Watts	\$309.00
TS-1580H	Crossband Coupler	132-174 & 806-902 MHz	400 Watts	\$377.00
TS-1590	Crossband Coupler	132-174 & 850-960 MHz	150 Watts	\$309.00
TS-1590H	Crossband Coupler	132-174 & 850-960 MHz	400 Watts	\$377.00
TS-2246	Crossband Coupler	219-225 & 406-512 MHz	150 Watts	\$309.00
TS-2246H	Crossband Coupler	219-225 & 406-512 MHz	400 Watts	\$377.00
TS-4680	Crossband Coupler	440-470 & 806-870 MHz	400 Watts	\$309.00
TS-4690	Crossband Coupler	440-470 & 896-932 MHz	400 Watts	\$309.00
TS-4780	Crossband Coupler	470-512 & 896-932 MHz	400 Watts	\$309.00

### COMBINER JUNCTIONS

Standard connectors are N-Female. DIN-F optional.

MODEL	DESCRIPTION	FREQ. RANGE	TX POWER	LIST PRICE
TW4-50	4-Way Junction	30-54 MHz	400 Watts	\$259.00
TW4-150	4-Way Junction	70-250 MHz	400 Watts	\$259.00
TW6-150	6-Way Junction	70-250 MHz	400 Watts	\$294.00
TW4-450	4-Way Junction	450-512 MHz	400 Watts	\$259.00
TW6-450	6-Way Junction	450-512 MHz	400 Watts	\$294.00
TW4-800	4-Way Junction	806-960 MHz	400 Watts	\$259.00
TW4-800S	4-Way Junction with sampling port	806-960 MHz	400 Watts	\$294.00
TW5-800	5-Way Junction	806-960 MHz	400 Watts	\$294.00
TRS-890	RF Sample Port, BNC output, -30 to -60 dB. Must specify freq. and coupling factor.			\$112.00
TRS-890-20	RF Sample Port, BNC output, -20 dB. Must specify freq.			\$167.00
TW-716	Add 7-16 DIN output to any junction			\$135.00

### EZ-MATCH

Standard connectors are N-Female. DIN-F optional.

MODEL	DESCRIPTION	FREQ. RANGE	TX POWER	LIST PRICE
TZM-50	E-Z Match - Transmitter to Load	30-54 MHz	400 Watts	\$149.00
TZM-150	E-Z Match - Transmitter to Load	144-174 MHz	400 Watts	\$149.00
TZM-450	E-Z Match - Transmitter to Load	400-512 MHz	400 Watts	\$149.00
TZM-860	E-Z Match - Transmitter to Load	800-960 MHz	400 Watts	\$149.00

# SECTION 7

## CABLES AND CONNECTORS

### CABLE ASSEMBLIES

MODEL	CABLE / CONNECTORS	LIST PRICE		
		2' (0.6m)	5' (1.5m)	10' (3.0m)
ANTA-01- (2) (5) (10)	RG-213/U UHF Male - UHF Male	\$40.00	\$43.00	\$51.00
ANTA-02- (2) (5) (10)	RG-213/U N Male - N Male	\$41.00	\$45.00	\$52.00
ANTA-03- (2) (5) (10)	RG-213/U N Male - N Female	\$41.00	\$45.00	\$52.00
ANTA-04- (2) (5) (10)	RG-213/U N Female - N Female	\$41.00	\$45.00	\$52.00
ANTA-05- (2) (5) (10)	RG-213/U N Male - UHF Male	\$41.00	\$43.00	\$52.00
ANTA-06- (2) (5) (10)	RG-213/U N Female - UHF Male	\$41.00	\$43.00	\$52.00
ANTB-01- (2) (5) (10)	RG-214/U N Male - N Male	\$52.00	\$68.00	\$81.00
ANTB-03- (2) (5) (10)	RG-214/U N Male - N Female	\$52.00	\$68.00	\$81.00
ANTB-04- (2) (5) (10)	RG-214/U N Female - N Female	\$52.00	\$68.00	\$81.00
ANTB-05- (2) (5) (10)	RG-214/U N Male - UHF Male	\$52.00	\$68.00	\$81.00
ANTB-06- (2) (5) (10)	RG-214/U N Female - UHF Male	\$52.00	\$68.00	\$81.00
ANTD-01- (2) (5) (10)	RG-142B/U UHF Male - UHF Male	\$50.00	\$64.00	\$77.00
ANTD-03- (2) (5) (10)	RG-142B/U N Male - N Male	\$50.00	\$64.00	\$77.00
ANTD-04- (2) (5) (10)	RG-142B/U N Male - N Female	\$50.00	\$64.00	\$77.00
ANTD-08- (2) (5) (10)	RG-142B/U N Female - N Female	\$50.00	\$64.00	\$77.00
ANTD-09- (2) (5) (10)	RG-142B/U N Male - UHF Male	\$50.00	\$64.00	\$77.00
ANTD-10- (2) (5) (10)	RG-142B/U N Female - UHF Male	\$50.00	\$64.00	\$77.00
ANTE-01- (2) (5) (10)	RG-393/U 7-16 DIN Male - Male	\$219.00	\$259.00	\$323.00
ANTE-02- (2) (5) (10)	RG-393/U 7-16 DIN Male - R/A Male	\$265.00	\$289.00	\$348.00
ANTE-03- (2) (5) (10)	RG-393/U 7-16 DIN R/A Male - R/A Male	\$301.00	\$337.00	\$360.00

#### **CABLE ASSEMBLY ORDERING INFORMATION**

Length in feet follows model number. Example: RG-214, N-male, 5 feet = "**ANTB-03-5**".

Approximate shipping weight: ANTA / ANTB / ANTE = 0.5 lb (0.2 kg) per ft. ANTD = 0.25 lb (0.1 kg) per ft.

MODEL	DESCRIPTION	LIST PRICE
TW2	Custom Jumper cables - Consult factory for pricing	
CBL213	RG-213 Type coaxial cable, per foot	\$3.00
CBL214T	RG-214T Coaxial cable per foot	\$4.00
TRG214	RG-214 Coaxial cable, per foot, Mil Spec, Silver Plate	\$11.00
TSFXC	FSJ4-50B 1/2" Superflex cable, per foot (not assembled)	\$11.00
UG21-SFX	Male Connector for Superflex. Gold plated pin. (Quantity pricing avail.)	\$19.00
TWEMMS	"Short" elbow adaptor N-Male to N-Male (CO038) 1-3/8" L	\$26.00
TWEMML	"Long" elbow adaptor N-Male to N-Male (CO039) 1-5/8" L	\$26.00

#### **NOTES:**

- 1) Custom cables available, and connectors can be supplied loose to allow critical-length cutting in the field.
- 2) Prices subject to change without notice based on availability and precious metal content.

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